

# 2013/14 Product Catalogue



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## Free To Air Antennas

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# Free To Air Antennas

## Digital Combination Antennas TRU-BAND™ Series

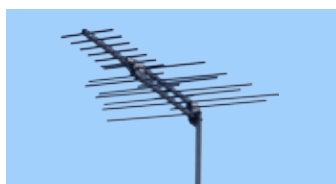
The latest innovative antennas from Hills have revolutionised digital TV reception in Australian capital cities.

### TRU-BAND™ Metro (Silver Bullet)



FB608578  
Designed for prime signal locations.

### TRU-BAND™ Plus Active (Active Black Arrow)



FB608583

### TRU-BAND™ Plus (Black Arrow)



FB608582  
High performance inner fringe antenna

The Active Black Arrow is the first Australian made antenna with an integrated 18 dB push-pull amplifier

#### Features

- Integrated amplifier at the antenna terminals provides ultra low noise performance for optimum fringe reception
- Push pull amplifier design allows for high input levels
- Excellent common mode rejection for lowest MER response
- 14VDC power injector included
- LED indicator

#### Features

- Designed for the precise digital frequency bands for true HD performance
- Boomlock™ manufacturing technology – patent pending
- Ultrasonically sealed balun prevents water ingress for maximum reliability
- Matched diplexer balun provides cleanest digital TV signals and rejects interference
- Strong mechanical construction
- Lightweight and compact
- Sensation black finish for low visual impact (excludes Silver Bullet)

#### Optional Support



FB607253  
Cantilever Support Brace

#### Accessories

- FB607260 Tru-Band U-bolt for 50mm mast  
 FB607254 Collar Nuts M6 (Black) Pack of 6  
 FB607255 Collar Nuts M6 (Natural) Pack of 6

## Specifications

### Electrical

	Channels		Max Gain (dB)		F-B Ratio (dB)		VSWR (typical)	
	VHF	UHF	VHF	UHF	VHF	UHF	VHF	UHF
Tru-Band Metro	6 - 12	28 - 38	8	9	12 - 14	16 - 20	1.5:1	1.5:1
Tru-Band Plus	6 - 12	28 - 38	9	10	12 - 20	16 - 20	1.5:1	1.5:1
Tru-Band Plus Active	6 - 12	28 - 38	9	10	13 - 16	14 - 18	1.5:1	1.5:1

### Mechanical Construction

	Finish	Balun	Connection	Packaging
Tru-Band Metro	Natural	PCB-Diplexer	F Type	Carton
Tru-Band Plus	Midnight Satin	PCB-Diplexer	F Type	Colour Display Carton
Tru-Band Plus Active	Midnight Satin	PCB-Diplexer	F Type	Colour Display Carton

## Digital Combination Antennas Platinum Series

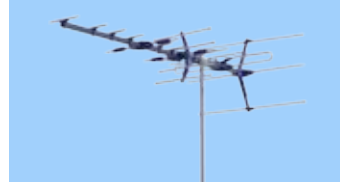
Traditional high performance digital only TV antennas, designed & built to withstand the toughest conditions.

### PHD1 Plus



FB608563B  
Superior performance  
for prime reception  
conditions

### PHD3 Plus



FB608571B  
Designed for superior  
performance for  
outer fringe reception  
conditions.

### PHD2 Plus



FB608564B  
Designed for superior  
performance for  
inner fringe reception  
conditions.

### Features

- Designed for Capital City Digital TV- Channels 6-12, 28-36
- Trigonal UHF reflector for increased gain on UHF channels.
- Fully designed and manufactured in Australia
- Ultrasonically sealed balun for maximum reliability
- Corrosion free design
- Clamshell insulators for positive element locking
- Simple to install

## Specifications

### Electrical

	Channels		Max Gain (dB)		F-B Ratio (dB)		VSWR (typical)	
	VHF	UHF	VHF	UHF	VHF	UHF	VHF	UHF
PHD1 Plus	6 - 12	28 - 36	5 - 7	9 - 10	11 - 13	14 - 18	2 : 1	1.6 : 1
PHD2 Plus	6 - 12	28 - 36	6 - 8	9 - 11	12 - 20	16 - 20	1.6 : 1	1.5 : 1
PHD3 Plus	6 - 12	28 - 36	6 - 10	8 - 12	13 - 16	14 - 18	2 : 1	1.6 : 1

### Mechanical Construction

	Reflector	Boom	Balun	Connection	Packaging
PHD1 Plus	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Colour Display Carton
PHD2 Plus	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Colour Display Carton
PHD3 Plus	Trigonal	30 by 15 Powder Coated Aluminium	PCB	F Type	Colour Display Carton

# Free To Air Antennas

## Digital Combination Antennas Spectramax

Spectramax antennas are designed to maximise reception of digital transmission signals in VHF band 3 and UHF band 4 as transmitted in most Capital Cities.



FB608531A  
SMX14WB

FB608530A  
SMX14B4+



Double sided UHF elements  
& Trigonal reflector to improve  
performance.

FB608533A  
SMX24WB

FB608532A  
SMX24B4+



VHF channels 6-12.  
UHF channels 28-37.  
Outer fringe antenna

FB608570  
SMX28B4+

### Features

- Galvanised steel boom construction for maximum strength on SMX24 & SMX28.
- Extruded aluminium boom construction for SMX14.
- Solid rivet construction for durability.
- Clam shell insulators and a flat sided boom provide a more consistent element alignment.
- 1/2 inch extruded aluminium elements provide a heavy duty construction to withstand harsh weather conditions & wildlife.
- Ultrasonically sealed PCB F type housing.

### Specifications

#### Electrical

	Channels		Gain (dB)		F-B Ratio (dB)		VSWR (typical)	
	VHF	UHF	VHF	UHF	VHF	UHF	VHF	UHF
SMX14WB	6 - 12	28 - 69	5 - 7	7 - 9	12 - 15	12 - 16	2 : 1	1.6 : 1
SMX14B4+	6 - 12	28 - 50	5 - 7	7 - 10	12 - 15	12 - 15	2 : 1	1.6 : 1
SMX24WB	6 - 12	28 - 69	5 - 8	8 - 11	13 - 16	13 - 17	2 : 1	1.6 : 1
SMX24B4+	6 - 12	28 - 50	5 - 8	8 - 12	13 - 16	15 - 19	2 : 1	1.6 : 1
SMX28B4+	6 - 12	28 - 50	6 - 8	8 - 12	13 - 16	15 - 19	2 : 1	1.6 : 1

#### Mechanical Construction

	Reflector	Boom	Balun	Connection	Packaging
SMX14WB	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Polysleeve Bag
SMX14B4+	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Polysleeve Bag
SMX24WB	Trigonal	30 by 15 Powder Coated Galvanised Steel	PCB	F Type	Fan Fold Carton
SMX24B4+	Trigonal	30 by 15 Powder Coated Galvanised Steel	PCB	F Type	Fan Fold Carton
SMX28B4+	Trigonal	30 by 15 Powder Coated Galvanised Steel	PCB	F Type	Fan Fold Carton



## Digital + Analogue Combination Antennas Seeker Cross Polarised

For regions where UHF and VHF channels are in alternate polarisations.



**FB608518A  
UV13B4+**  
Compact cross polarised antenna design allowing mounting in either polarisation



**FB608585  
UV16B4+**  
A cross polarised antenna with higher VHF & UHF gain

### Features

- Aluminium boom with unique dual rear section for extra strength.
- Solid rivet construction for durability.
- Clam shell insulators and a flat sided boom provide a more consistent element alignment.
- 1/2 inch extruded aluminium elements provide a heavy duty construction to withstand harsh weather conditions & wildlife.
- F Type connectors enable better shielding and more reliable connection.

### Specifications

#### Electrical

	Channels		Gain (dB)		F-B Ratio (dB)		VSWR (typical)	
	VHF	UHF	VHF	UHF	VHF	UHF	VHF	UHF
UV13B4+	6 - 12	28 - 52	6 - 7.5	11 - 14	10 - 14	12 - 17	2 : 1	1.6 : 1
UV16B4+	6 - 12	28 - 46	8 - 10	12 - 16	12 - 16	15 - 20	2 : 1	1.6 : 1

#### Mechanical Construction

	Reflector	Boom	Balun	Connection	Packaging
UV13B4+	Single Element	15 by 15 Powder Coated Aluminium	PCB	F Type	Fan Fold Carton
UV16B4+	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Fan Fold Carton

## LP569F Broadband Log Periodic Antenna



**BC71498  
Ch 6 -69  
F Type**

# Free To Air Antennas

## Digital + Analogue Combination Antennas

### OMX350 Series

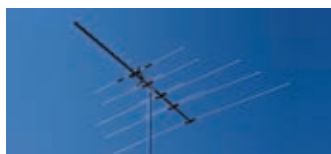
### OMX450 Plus

#### OMX350WB



FB608549  
Designed with a F type connection, PCB balun and Trigonal reflector

#### OMX450 PLUS



FB608550  
Designed with a F type connection, PCB balun and Trigonal reflector.

#### OMX350B4+



FB608548  
Designed with a F type connection, PCB balun and Trigonal reflector.

### Features

The Optimax 50 Series range is the culmination of over 50 years of Hills experience with analogue & digital TV reception.

- Ultrasonically sealed balun housing to prevent water ingress.
- Galvanised steel boom for a more rigid antenna.
- 1/2 inch extruded aluminium elements provide a heavy duty construction to withstand harsh weather conditions and wildlife.
- Solid rivet construction for durability
- Improved trigonal reflector with easy clip on design, requiring no tools or fasteners.
- Easy to install.

## Specifications

### Electrical

	Channels		Gain (dB)		F-B Ratio (dB)		VSWR (typical)	
	VHF	UHF	VHF	UHF	VHF	UHF	VHF	UHF
OMX350WB	1 - 12	28 - 69	3 - 9	8 - 15	10 - 15	13 - 17	2 : 1	1.6 : 1
OMX350B4+	1 - 12	28 - 50	3 - 9	9 - 14	10 - 15	15 - 20	2 : 1	1.6 : 1
OMX450PLUS	2 - 12	28 - 40	5 - 10	11 - 13	10 - 14	13 - 17	2 : 1	1.6 : 1

### Mechanical Construction

	Reflector	Boom	Balun	Connection	Packaging
OMX350WB	Trigonal	30 by 15 Powder Coated Galvanised Steel	PCB	F Type	Fan Fold Carton
OMX350B4+	Trigonal	30 by 15 Powder Coated Galvanised Steel	PCB	F Type	Fan Fold Carton
OMX450PLUS	Trigonal	30 by 15 Powder Coated Galvanised Steel	PCB	F Type	Fan Fold Carton

## UHF Antennas TRU-SPEC™ & Optional Support

The Tru-Spec series of Yagi antennas have been developed by Hills Antenna & TV Systems for reception of terrestrial digital TV signals. The bandwidths and performance are optimised for Australian conditions, with the switch-over to digital TV and re-stacking of UHF channels Australia wide. The Tru-Spec Yagis incorporate the Hills BoomLock™ manufacturing technology (patent pending), which ensures the robust 8mm antenna elements are securely bonded to the boom without the need for fasteners.

### TRU-SPEC™ - Prime



Models available:  
TSP2851 - FB608580  
TSP2869 - FB608573  
  
TSM2851 - FB608590

### TRU-SPEC™ - Fringe



Models available:  
TSF2833 - FB608589  
TSF2839 - FB608575  
TSF3869 - FB608584  
TSF2851 - FB608581  
TSF2869 - FB608574

### Optional Support



Centre Support Brace  
FB607252



Cantilever Support Brace  
FB607251

## Features

- Precise antenna specifications within the desired UHF frequency band
- BoomLock™ manufacturing technology - patent pending
- New mounting clamp for easier and safer installation
- Ultrasonically sealed balun housing for maximum reliability
- PCB balun for true matching and lowest insertion loss
- Strong and lightweight aluminum construction.

### Antenna Selection:

Yagi antennas generally have higher gain on higher frequencies within the design channel range. For optimum performance on lower channels, choose the model of Tru-Spec that covers the narrowest range of channels that are required.

## Specifications

### Electrical

Model	Product Code	Channel Range	Frequency Range (MHz)	Gain (dB)	F/B Ratio (dB)	VSWR (typical)
TSF2833	FB608589	28 - 33	526 - 568	11 - 14	18 - 27	1.5:1
TSF2839	FB608575	28 - 39	526 - 603	10 - 14	15 - 32	1.5:1
TSF3869	FB608584	38 - 69	596 - 820	10 - 14	18 - 27	1.5:1
TSP2851	FB608580	28 - 51	526 - 694	9 - 14	12 - 23	1.5:1
TSM2851	FB608590	28 - 51	526 - 694	9.5 - 15	15 - 25	1.5:1
TSF2851	FB608581	28 - 51	526 - 694	9.5 - 16	15 - 32	1.5:1
TSP2869	FB608573	28 - 69	526 - 820	8 - 13	12 - 22	1.5:1
TSF2869	FB608574	28 - 69	526 - 820	9 - 15	13 - 26	1.5:1

### Mechanical Construction

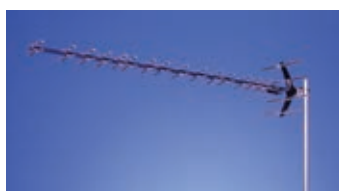
Model	Product Code	Boom Length (mm)	No. of elements	Weight (unpacked)	Weight (packed)	Carton dimensions LxWxH (cm)
TSF2833	FB608589	1455	11	0.6	1.1	150x31x7
TSF2839	FB608575	1455	11	0.6	1.1	150x31x7
TSF3869	FB608584	1165	11	0.6	1.1	118x31x7
TSP2851	FB608580	1155	10	0.6	1.1	118x31x7
TSM2851	FB608590	1415	11	0.6	1.1	150x31x7
TSF2851	FB608581	1792	14	0.9	1.4	183x31x7
TSP2869	FB608573	970	10	0.6	1.0	101x31x7
TSF2869	FB608574	1455	14	0.8	1.3	150x31x7

# Free To Air Antennas

## UHF Antennas TruMatch & Optional Support

The Hills TMX UHF Yagi antennas have been proven performers for digital and analogue UHF TV reception, since the introduction of digital TV in Australia. The antennas have continuously improved since the introduction of UHF TV. All TMX models are manufactured on a 15 x 15 mm powder coated aluminium boom, with trigonal reflector, PCB F Type balun, and are packed in a fan fold carton.

### TruMatch



#### Available models

TMX14B4+	FB607078B
TMX16WB	FB607079B
TMX18B4	FB607080B
TMX18B5	FB607081B
TMX20B4+	FB607082B
TMX34WB	FB607083B

### Features

- Digital and analogue compatibility.
- Printed Circuit Board baluns to provide optimal impedance matching and mechanical characteristics.
- F Type connectors for better shielding and more reliable connections.
- Unique cross shaped double elements for extra strength.
- UV stable plastics for durability under harsh Australian conditions.
- Simple Assembly.
- Australian designed and manufactured.
- Compact neat and unobtrusive design.

### Optional Support

For added stability it is ideal for TMX18, TMX20 and TMX34 antenna to be fitted with the Optional Centre Support Brace, or the Cantilever Support Brace. Where appropriate the TMX14 and TMX16 can be fitted with the Optional Cantilever Brace.



Centre Support Brace  
FB603836



Cantilever Support Brace  
FB603844

## Specifications

### Electrical

	Channels	Gain (dB)	F-B Ratio (dB)	VSWR (typical)
	UHF	UHF	UHF	UHF
TMX14B4+	28 - 52	8 - 13	17 - 25	1.6 : 1
TMX16WB	28 - 69	8 - 13	17 - 21	1.6 : 1
TMX18B4	28 - 38	12.5 - 15	12 - 16	1.5 : 1
TMX18B5	38 - 69	10 - 14	18 - 23	1.6 : 1
TMX20B4+	28 - 52	10 - 14	15 - 24	1.6 : 1
TMX34WB	28 - 69	11 - 16	15 - 25	1.6 : 1

### Mechanical Construction

	Reflector	Boom	Balun	Connection	Packaging
TMX14B4+	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Fan Fold Carton
TMX16WB	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Fan Fold Carton
TMX18B4	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Fan Fold Carton
TMX18B5	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Fan Fold Carton
TMX20B4+	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Fan Fold Carton
TMX34WB	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Fan Fold Carton

## UHF Antennas UHF Phased Array

Designed with high performance and ease of installation for digital and analogue UHF applications. These antennas utilise a superior matched PCB balun for efficient signal transfer with improved matching over a wider frequency range.

An F type ultrasonically sealed balun housing is incorporated on UMX18 & UMX36.

High quality extruded aluminium backscreen with director element for superior performance on UMX models. Powder coated zinc steel backscreen on Hunter models.

### Ultimax 36 FB608542



*(Picture shows mounting for horizontal polarisation)*

Digital & Analogue compatible, Optimised Wide Band PCB Balun, Sealed Housing with Integral F type Connector, Robust Construction.

### Features

- Broadband – Band 4 & 5 (Channels 28 to 69). Covers any UHF channel grouping – existing and proposed.
- High gain – Out performs most WB Yagi types in poor reception areas.
- Suitable front to back ratio.
- Tilt facility in horizontal mode.
- Compact rugged mechanical construction.
- Suitable for horizontal and vertical polarisation.

### Specifications

#### Electrical

	Channels	Gain (dB)	F-B Ratio (dB)	VSWR (typical)
	UHF	UHF	UHF	UHF
Ultimax 36	28 - 69	11 - 15	16 - 21	1.6 : 1
Ultimax 18	28 - 69	8 - 13	12 - 19	1.6 : 1
Hunter F Type	28 - 69	10 - 14	17 - 19	1.6 : 1
Hunter Mini CKD - F Type	28 - 69	7 - 11	11 - 20	1.6 : 1

#### Mechanical Construction

	Reflector	Balun	Connection	Packaging
Ultimax 36	Aluminium screen	PCB	F Type	Printed Carton
Ultimax 18	Aluminium screen	PCB	F Type	Printed Carton
Hunter F Type	Zinc plated steel screen	PCB	F Type	Fan Fold Carton
Hunter Mini CKD - F Type	Zinc plated steel screen	PCB	F Type	Fan Fold Carton

### Ultimax 18 FB608566



### Hunter F Type



FB608546  
Complete with printed circuit balun for optimum performance and matching.

*(Picture shows mounting for vertical polarisation)*

### Hunter Mini CKD



FB608565  
Suitable for horizontal and vertical polarisation. Tuned dipoles in a phased array to optimise reception over broadband UHF. PCB balun with F type for optimum performance and matching.

# Free To Air Antennas

## UHF Antennas Super Fringe

A range of high gain UHF antennas for use in poor signal areas. Designed and manufactured in Australia.

### SFX43WB



FB608555  
Broadband high gain Yagi antenna for fringe areas.

### SFX91WB



FB608556  
Broadband high gain Yagi antenna for outer fringe reception of channels 28-69.

### SFX91B4+



FB608557A  
Broadband high gain Yagi antenna for outer fringe reception of channels 28-51.

## Features

- High quality extruded aluminium backscreen for maximum strength and optimum corrosion protection.
- Lightweight but robust construction.
- F type balun.
- Ultrasonically sealed balun housing.
- SFX 91 are provided with support brace for higher stability

## Specifications

### Electrical

	Channels	Gain (dB)	F-B Ratio (dB)	VSWR (typical)
	UHF	UHF	UHF	UHF
SFX43WB	28 - 69	10 - 15	18 - 24	1.6 : 1
SFX91WB	28 - 69	13 - 17	19 - 22	1.6 : 1
SFX91B4+	28 - 51	13 - 16	19 - 22	1.6 : 1

### Mechanical Construction

	Reflector	Boom	Balun	Connection	Packaging
SFX43WB	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Polysleeve Bag
SFX91WB	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Polysleeve Bag
SFX91B4+	Trigonal	15 by 15 Powder Coated Aluminium	PCB	F Type	Polysleeve Bag

## VHF Antennas DY Series

### DY4



FB608006  
4 Elements  
Prime Signal Antenna

### DY10



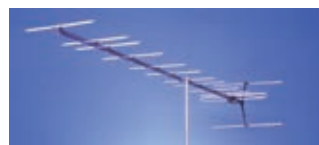
FB608008  
10 Elements  
Inner Fringe Signal  
Antenna

### DY6



FB608007  
6 Elements  
Outer Prime Signal  
Antenna

### DY14

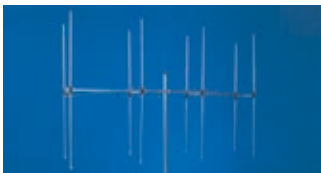


FB608009  
14 Elements  
Fringe Signal Antenna

## Features

- F type connectors for better shielding and more reliable connections.
- Powder coated boom for longer life and improved aesthetics.
- UV stable plastics for durability under harsh Australian conditions.
- Australian designed and manufactured.

### VHF Phased Array - CA16 F Type



FB601308A  
VHF channels 6 - 12  
16 Elements  
Fringe Signal Antenna

### VHF FM - Y3FM



FB608010  
87.5 - 108MHz  
Channels 3 - 5  
Prime Signal Antenna

## Specifications

### Electrical

	Channels	Gain (dB)	F-B Ratio (dB)	VSWR (typical)
	VHF	VHF	VHF	VHF
DY4	6 - 12	6 - 8	14 - 15	2 : 1
DY6	6 - 12	7 - 9	15 - 17	2 : 1
DY10	6 - 12	8 - 11	14 - 27	2 : 1
DY14	6 - 12	9 - 13	15 - 23	2 : 1
CA16-F Type	6 - 12	10 - 12	11 - 19	2 : 1
Y3 FM	3 - 5	4 - 5	12 - 15	2 : 1

### Mechanical Construction

	Reflector	Boom	Balun	Connection	Packaging
DY4	Single Element	15 by 15 Powder Coated Aluminium	Ferrite	F Type	Polysleeve Bag
DY6	Single Element	15 by 15 Powder Coated Aluminium	Ferrite	F Type	Polysleeve Bag
DY10	Trigonal	30 by 15 Powder Coated Galvanised Steel	Ferrite	F Type	Fan Fold Carton
DY14	Trigonal	30 by 15 Powder Coated Galvanised Steel	Ferrite	F Type	Fan Fold Carton
CA16-F Type	Screen	12mm Aluminium Elements	Ferrite	F Type	Cardboard reinforcement
Y3 FM	Single Element	15x15 Powder Coated Aluminium	Ferrite	F Type	Polysleeve Bag

# Free To Air Antennas

## Caravan Antennas Nifti Vantenna & Nomad

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### Nifti Vantenna



FB608528A

An outstanding feature of the Nifti Vantenna is the rubber safety stoppers on the ends of the elements to protect van owners from injury during installation. The antenna comes complete with mast mounting brackets and carry bag for storage.

VHF channels 0-12  
UHF channels 28-69

VHF gain 0dB (dipole)  
UHF gain 6-9dB

UHF Front to back ratio 6-9dB

### Features

- Easy to Install
- Ideal for caravans, portable homes
- Prime signal UHF/VHF reception
- Adjust height and direction from the ground
- Horizontal or vertical polarisation
- Includes: coaxial cable and connector, mast and mounting bracket.
- Inbuilt element retaining clips to hold the longer elements in place when travelling.

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### Nifti Nomad



FB608554

The new generation Caravan TV antenna, featuring segmented looped dipole and integrated balun to enhance UHF performance. The antenna comes complete with mast pole, fully fitted coaxial cable, mounting brackets, screws and compact carry bag for storage.

VHF channels 2-12  
UHF channels 21-69

### Features

- Easy to Install
- Ideal for caravans, portable homes
- Unique folded colinear element design
- Prime signal UHF/VHF reception
- Receives FM radio
- Adjust height and direction from the ground
- Horizontal or vertical polarisation
- Includes: mast pole, mounting bracket & screws, fully fitted coaxial cable, carry bag to protect antenna & mast



## Marine Antenna Televés Omninova Marine



The Omni-directional antenna with built in amplifier designed primarily for use on boats, but also giving superb results when used as a caravan antenna.

Of robust construction, the antenna is able to withstand the harsh Australian conditions.

The antenna element and amplifier are both contained within a saltwater resistant, plastic housing filled with plastic foam ensuring total protection against moisture damage.

All exterior metal parts are made from corrosion resistant material. The antenna is easily detached from its mounting bracket for storage. Power is supplied to the internal amplifier via the download.

With its small dimensions, light weight and elegant design the Omninova Marine is the ideal mobile antenna.

### Specifications

Product Code	BC947		
Gain	AM	(dB)	-1
	BI	(dB)	26
	FM	(dB)	20
	BIII	(dB)	28
	UHF	(dB)	30
Powering	AC	(V)	220~240
	DC	(V)	12~24
Switching Output Voltage	(V)	10/8 (On/Off)	
Maximum Consumption	(mA)	150	

## Indoor Antenna VHF / UHF 75 OHM

### VHF / UHF Indoor Antenna



BC3640DP

### VHF / UHF Rabbit Ears



BC89504DP

### VHF / UHF / TV & FM Radio Amplified



BC72474

Design for digital TV reception.

VHF  
20dB adjustable gain.

UHF  
32dB adjustable gain.



# Mounts & Hardware

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# Mounts & Hardware

## Antenna Mounts Tile Roof Mount

### Free To Air Tile Roof Mount



Sturdy non penetrating tile roof mount for free to air antennas.  
FB607236

## Antenna Mounts Tin Roof Mount

### FTA Tin Roof Mount (Ridge Mount)



Designed for minimum roof penetrations and detritus build up on corrugated iron roofs.  
FB607198

### Tripod Tile Mount



Tile  
Complete with 1.2m Mast  
BC2880

Complete with 1.2m Mast Includes Mast Cap  
KC4570

### Tripod iron roof mount



Iron  
Complete with 1.2m Mast  
BC2844

Complete with 1.2m Mast Includes Mast Cap  
KC4571

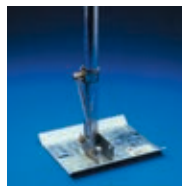
### Rafter Mount



Left Hand - 1.8m (72") x 32mm (1 1/4")  
FB606340

Right Hand - 1.8m (72") x 32mm (1 1/4")  
FB607184

### Adjustable Roof Mount



FB602430

### Loft Mount LMH



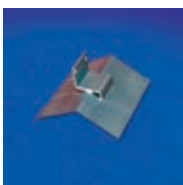
FB602326

### Roof Deck Mount



Strammit Roof - Non penetrating mount  
FB602414  
(Pole not included)

### Tile Ridge Mount



Tile Ridge Mount for Guyed Mast  
Includes U-Bolt  
FB606366

### Iron Ridge Mount



Iron Ridge Mount for Guyed Mast  
Includes U-Bolt  
FB606374

### Metal Roof Mount



Metal Roof Mount  
BC87182

Metal Roof Mount Includes U-Bolt Kit  
KC4100

## Antenna Mounts Mounts & Brackets

### Curved Fascia Bracket



**1m (40") x 25mm (1") Regular Base**  
FB603004

**1.4m (55") x 25mm (1") Regular Base**  
FB602406  
FB602406B - **Black Finish**

**1.4m (55") x 25mm (1") Vertical Base**  
FB606462

**1.8m (72") x 25mm (1") Regular Base**  
FB603298

**2.7m (108") x 25mm (1") Regular Base**  
FB603474

**Heavy Duty Curved Fascia Brackets**  
1.6m (64") x 32mm (1 1/4") Regular Base  
FB606404

### Sheet Metal Fascia Bracket



**215mm x 65mm**  
(Used to provide support on metal fascias)  
FB602842

### Eaves & Wall Bracket



**Eaves Brackets**  
135mm (5") FB607216  
275mm (11") FB602594

**Wall Brackets**  
685mm (27") FB602608  
1.0m (40") FB602616  
1.2m (48") FB607203  
1.4m (55") FB603554

**No. 17 kit**  
(175mm & 685mm brackets with U-bolt  
& mast fittings)  
FB602788

### Under Eaves Bracket



**1.7m Under Eave Bracket**  
FB607199

### D Clamp Bracket



**175mm (7") Eave / Wall Mount**  
FB602448

### Wall Mount Accessory Pack



FB602350  
2 x U Bolt  
1 x Offset V Block

### Chimney Bracket



**No. 12 Single Chimney Bracket**  
FB602690

**No. 6 Double Chimney Bracket**  
FB602552

### Curved Chimney Bracket



**40" Curved Chimney Bracket**  
FB602624

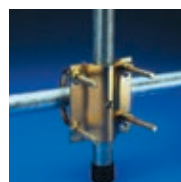
**Curved Chimney Accessory Kit**  
FB604820

### Vertical Standoff Arm Mount



**VM1S 381mm Vertical Standoff**  
FB602376

### Vertical Mount



**VPB1 Assembly**  
FB602384

# Mounts & Hardware

## Antenna Mounts Stay Bars

### Stay Bars



**1.2m (4ft) x 16mm (5/8")**  
FB902048

**1.8m (6ft) x 16mm (5/8")**  
FB902056

**2.4m (8ft) x 16mm (5/8")**  
FB902064

**1.2m (4ft) x 25mm (1")**  
FB902072

**1.8m (6ft) x 25mm (1")**  
FB902080

**2.4m (8ft) x 25mm (1")**  
FB902098

### Stay Bar Collars



**Stay Bar Collars**  
FB902328 for 25mm mast  
FB902110 for 38mm mast  
FB902102 for 51mm mast

**Stay Bar - Adjustable**  
0.9m (3') to 1.5m (5')  
FB607070

### U-Bolt Assembly



**M8 x 90mm x 63.5mm Centres**  
FB607188

**M6 x 95mm x 57mm Centres**  
(Pack of 5)  
FB901214

**M6 x 100mm x 63.5mm Centres**  
FB607187

**M8 x 140mm x 63.5mm Centres**  
FB607207

### Coach Screws



**Coach Screws 1-1/2" x 5/16"**  
BC900036 (Box of 100)  
BC900036S for single item

**Coach Screws 1-1/2" x 3/8"**  
BC900044 (Box of 100)  
BC900044S for single item

**Coach Screws 2" x 3/8"**  
BC900052 (Box of 100)  
BC900052S for single item

## Antenna Hardware Hardware Accessories

### Tapes and Sealant



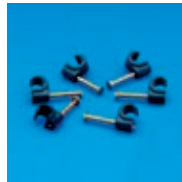
**PVC Tape**  
BC2966

**Aluminium Foil Tape - 48mm x 50m**  
BC71937

**Butyl Rubber Tape - 19mm x 10m**  
BC86850

**Silicon 300g Translucent Sealant**  
BC87011

### Cable Clip



**6mm - Black**  
(Bag of 100)  
BC86810



**14mm - Black (Box of 100)**  
BC75752

**14mm - White (Box of 100)**  
BC75985

### Cable Ties



**200mm**  
(Bag of 100)  
BC42

**300mm**  
(Bag of 100)  
BC43

## Antenna Hardware Hardware Accessories

### Flashings



**DF100 Dektite Mini Flashing 0-35mm**  
(For pipes & penetrations - Hanger Pack)  
BC88054



**DF101 No. 1 Dektite 5-65mm**  
(For Antennas & Satellite - Hanger Pack)  
BC88055



**DF100 Dektite Mini Flashing 0-35mm**  
(Pack of 20 - Bulk Pack)  
BC88056



**DF101 No.1 5-65mm**  
(Pack of 10 - Bulk Pack)  
BC86953



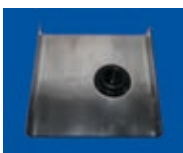
**DF102 No. 2 Dektite 38-85mm**  
(Pack of 10 - Bulk Pack)  
BC88057



**DF103 No. 3 Dektite 0-120mm**  
(Pack of 10 - Bulk Pack)  
BC88058



**DNL101B Dektite Acrylead Tile Flashing**  
25-70mm  
BC86938

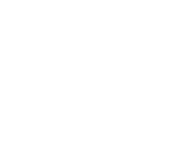


**TFA012 Tile Aluminium Flashing**  
12-70mm  
BC73480

### Guy Wire



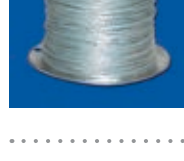
**30m 7/1.25**  
(For Telomast Applications)  
FB602658



**91m 7/1.25**  
(For Telomast Applications)  
FB602666



**100m 7/0.90**  
FB603280



**180m 7/0.90**  
BC324

**180m /0.90 Spool**  
(Metal Drum)  
BC71270

### Guying Accessories



**32mm Guy Plate**  
(To suit 32mm mast)  
FB902224



**38mm Guy Plate**  
(To suit 38mm mast)  
FB902312



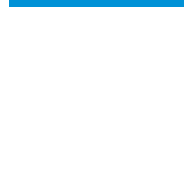
**32mm Lock Ring**  
(To suit 32mm mast)  
FB902178



**38mm Lock Ring**  
(To suit 38mm mast)  
FB902186



**32mm Guy Clamp Kit**  
Lock Ring & Guy Plate & Thimbles  
FB902336



**38mm Guy Clamp Kit**  
Lock Ring & Guy Plate & 3 Thimbles  
FB902344

# Mounts & Hardware

## Antenna Hardware Hardware Accessories

### Hardware Accessories



**Galvanised Guy Cleat**  
FB602770

### Hardware Accessories



**Guy Anchor Plate**  
FB901706

### Guy Wire Thimble



**6mm (Pack of 4)**  
FB607241

**6mm (Pack of 12)**  
FB901310

### Eye Bolts



**Eye Bolt & Nut 9" x 3/8" – Galv.**  
BC2562

### Screw Eyes



**75mm (3") x 8mm (5/16")**  
(Pack of 5)  
FB900002

**100mm (4") x 8mm (5/16")**  
(Pack of 5)  
FB900010

**140mm (5½") x 8mm (5/16")**  
(Pack of 1) BC3152

**180mm (7") x 8mm (5/16")**  
(Pack of 1)  
BC86815

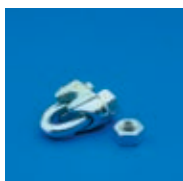
### Turnbuckles



**Turnbuckle 6mm (1/4")**  
BC286

**Turnbuckle 8mm (5/16")**  
BC294

### Wire Rope Grips & Clamps



**3/16"**  
BC3694

**6mm**  
BC4024

**Wire Lashing Clamp (Pack of 12)**  
FB901302



## Masting Telomasts

Tubular telescopic guyed masts in heights of 6, 9, 12 15 meters. Lightweight, tubular Galvabond steel construction. Full range of mountings and rigging hardware available. Suitable for ground or roof mounting.

.....

### Telomast telescopic tubular masts (mast only)

**6m (20')**  
FB180A

**9m (30')**  
FB172A

**12m (40')**  
FB164A

**15m (50')**  
FB156A

.....

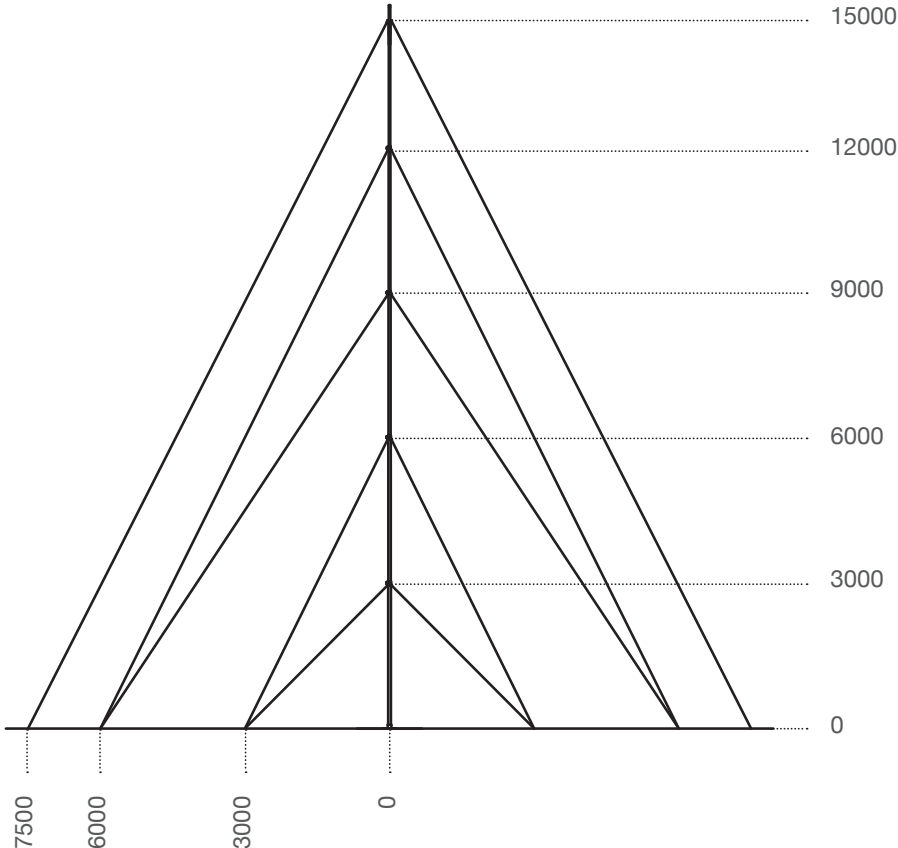
### Accessory Packs (Includes lock screws, retaining pins, thimbles for guy plates, mast cap, instructions.)

**6m (20')**  
FB50A

**9m (30')**  
FB68A

**12m (40')**  
FB76A

**15m (50')**  
FB84A



# Mounts & Hardware

## Masting Telomasts

To construct a Telomast with four way guying, the following components are required:

---

### 6m / 20' Telomast (4 way guying)

**6m Telomast**  
FB180A

**6m Accessory Pack**  
FB50A

**5/16" Turnbuckles x 8**  
BC294

**3/16" Wire Rope Grips x 12**  
BC3694

**2 x 30m rolls 7/1.25 Guy Wire**  
(Guy wire lengths - 4 x 8m, 4 x 5m)  
FB603280  
4 x guy anchors

---

### 12m / 40' Telomast (4 way guying)

**12m Telomast**  
FB164A

**12m Accessory Pack**  
FB76A

**5/16" Turnbuckles x 16**  
BC294

**3/16" Wire Rope Grips x 64**  
BC3694

**6 x 30m rolls 7/1.25 Guy Wire**  
(Guy wire lengths - 4 x 15m, 4 x 12m, 4 x 8m, 4 x 5m)  
BC324  
8 x guy anchors

---

### 9m / 30' Telomast (4 way guying)

**9m Telomast**  
FB172A

**9m Accessory Pack**  
FB68A

**5/16" Turnbuckles x 12**  
BC294

**3/16" Wire Rope Grips x 48**  
BC3694

**4 x 30m rolls 7/1.25 Guy Wire**  
(Guy wire lengths - 4 x 12m, 4 x 8m, 4 x 5m)  
FB602666  
8 x guy anchors

---

### 15m / 50' Telomast

**15m Telomast (4 way guying)**  
FB156A

**15m Accessory Pack**  
FB84A

**5/16" Turnbuckles x 20**  
BC294

**3/16" Wire Rope Grips x 80**  
BC3694

**8 x 30m rolls 7/1.25 Guy Wire**  
(Guy wire lengths - 4 x 18m, 4 x 15m, 4 x 12m, 4 x 8m, 4 x 5m)  
BC324  
12 x guy anchors

---

### Telomast Foot Mount



**Telomast Foot Mount**  
(For use with guyed mast)  
FB602498

---

### Telomast Base Plate

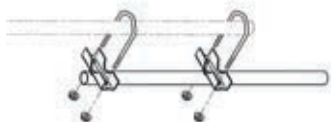


**Telomast Base Plate**  
FB602502

1. Guy Anchors: FB901706 Guy anchor plate; FB602770 Galvanised Guy cleat; BC2562 9" x 3/8" Eye Bolt.
2. For other configurations, eg three way guying or for pitched roofs, contact your nearest Hills Antenna office for more information
3. Base mounting: FB602498 Telomast Foot mount; FB602502 Telomast base plate; FB606374 Iron Ridge Roof mount; FB606366 Tile Ridge Roof mount.

## Masting Galvanised Masting

### Mast Extensions



**Add A Mast (1.5m)**  
FB603684



**Mast Extension kit**  
FB602392

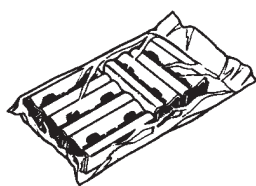
### Mast Caps



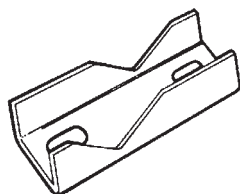
**32mm**  
FB607244

**25mm**  
FB607243

**38mm**  
BC86955



**Clamp Saddle**  
(Pack of 10)  
FB901222



**Offset V Block**  
(Pack of 10)  
FB901256

### Masting - Galvabond

**1.8m x 25mm x 1.2mm (6' x 1")**  
BC602746

**2.4m x 32mm x 1.2mm (8' x 1¼")**  
BC602826

**3m x 32mm x 1.2mm (10' x 1¼")**  
BC602762

**4.5m x 32mm x 1.6mm (15' x 1¼")**  
BC602922

**4.5m x 38mm x 1.6mm (15' x 1¼")**  
BC602930

**3.3m x 38mm x 1.6mm (10'8" x 1½")**  
BC602948

**3m x 51mm x 1.6mm (10' x 2")**  
BC602972

# Mounts & Hardware

## Satellite Mounts Mounting Hardware

### EzyGutter Tile Roof Mount

#### Standard Gutter Mounts

Wind Classification:  
W60 (C3) with 65cm Dish  
W50 (N4, C2) 85cm Dish

600mm - FB607237A

900mm - FB607238A

#### HD Gutter Mounts

Wind Classification:  
G80:W55 (N4.5, C2.5)

600mm - FB607229

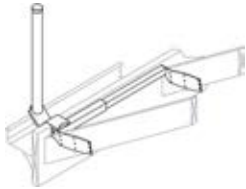
900mm - FB607231

#### BB Gutter Mounts

Wind Classification:  
IPstar 2-way 85cm:W50 (N4,C2)

600mm VSAT - FB607214A

900mm VSAT - FB607215A



### BB Tin Roof Mount

Wind Classification:  
W60 VSAT offset two way dishes  
BigPond 74cm

W55 VSAT two way dishes Patriot  
Ipstar 85cm

Foxtel Approved, suit BC3904 NR  
90mm Dish

FB607204



### 2 Way Fleximount Tin Mount XHD

Wind Classification:  
W60 Tin roof VSAT two way dishes  
Prodelin 98cm

W50 Tile roof VSAT two way dishes  
Prodelin 98cm  
W60 Wall VSAT two way dishes

W60 Tin roof VSAT two way dishes  
Prodelin 120cm

W41 Tile roof VSAT two way dishes  
Prodelin 120cm  
W41 Wall VSAT two way dishes  
Prodelin 120cm

#### Tin

FB607137C (76mm)  
FB607248 (73mm)

#### Tile

FB607146A (76mm)  
FB607249 (73mm)

#### Wall

FB607147D (76mm)  
FB607250 (73mm)



### 2 Way Fleximount Mount HD (Kit Only)

Wind Classification:  
W60 Tin roof VSAT two way dishes  
Patriot IPstar 85cm

W41 Tile roof VSAT two way dishes  
Patriot IPstar 85cm

W60 Wall VSAT two way dishes  
Patriot IPstar 85cm

FB607133A



### Metal Frame Kit - Guttermount



To facilitate the installation of  
guttermount on metal frame roof  
.. FB607227

### Flexi Tin Mount

Wind Classification:  
W60 with 65cm Dish  
W55 with 85cm Dish

Triangular design for minimum  
penetrations on Tin / Tile Roof

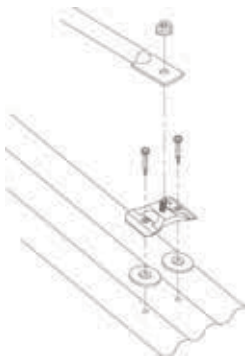
**Tile Roof**  
FB607041A

**Steel Roof**  
FB607042A



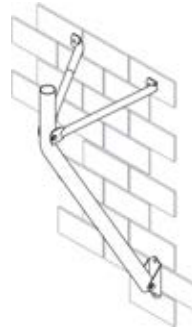
## Satellite Mounts Mounting Hardware

### Duo Cleat Corrugated Metal Roof Kit



Unobtrusive load-spreader for fixing Fleximount to CGI supported by light gauge metal battens.  
FB607226

### Vertical Surface Mount



Wind Classification:  
W50 with 65cm Dish  
W41 with 80cm Dish

**Extended Vertical Surface Mount**  
FB607058

### Metal Batten Universal Roof Kit



Heavy-duty load spreader for metal clad roofs supported by metal battens.  
FB607150A

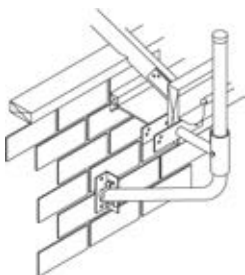
### Soffit / Ground Mount



**Soffit Mount**  
FB606648A - wall mount

**Ground Mount 1.8 x 76mm**  
FB607175

### Extended Fascia Mount



Wind Classification:  
W50 with 65cm Dish  
W41 with 85cm Dish

FB607011A

### Portable Satellite Dish Mount



Designed for quick assembly.  
Provides a stable base for satellite dish.  
FB607200



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# Amplifiers

## Masthead Amplifiers & Associated Equipment Q-Amp VHF/UHF Amplifier



The Hills Q-Amp is a fully flexible high gain masthead amplifier, designed and manufactured in Australia for domestic and commercial TV reception applications. Several unique design features ensure that the amplifier is adaptable to a wide range of conditions.

### Features

- Switchable Gain Control & Adjustable Gain
- Improved Noise Figure, Diecast Housing
- 1 or 2 Inputs, Power On Indication
- Pager / Cellular / FM Filters
- Earth Point Attachment & Weatherproof case

### Specifications

Product Code	FC658205	FC658228
Power Supply	Incl.PSU6F (F Type)	Incl.PSU10P (PAL Type)
Band I (45-70MHz)	Local 0 – 8dB, Remote 22 – 30 dB	
Gain	Local 0 – 8dB, Remote 22 – 30 dB	
Band III (174-230MHz)	Local 0 – 8dB, Remote 22 – 30 dB	
Gain	Local 0 – 8dB, Remote 22 – 30 dB	
Band IV/V (520-820MHz)	Local 0 – 10dB, Remote 24 – 34 dB	
Gain	Local 0 – 10dB, Remote 24 – 34 dB	
Max Output (-60dB) IMR)	104dBuV	
Noise Figure	<3.5dB (VHF), <2dB (UHF)	
Pager Notch Filter	148-155MHz	
FM Band	-20dB	
Cellular Notch Filter	>900MHz	
Power Supply	14VDC 150mA	
Sealing (housing)	IP55	
Dimensions	Masthead: 95 x 65 x 20mm Housing: 130 x 120 x 32mm	
Standards & Compliance	C-Tick Approved, CISPR13:2004	

## Masthead Amplifiers & Associated Equipment Q-Amp Digital Amplifier



The Hills Q-Amp Digital Amplifier is a fully flexible high gain masthead amplifier, which includes a high pass filter to attenuate all frequencies below 174 MHz (Ch 6), ensuring better channel loading and improved impulse noise performance.

### Features

- Amplifies Band 3 (Ch6 – 12) & UHF (Ch 28 – 69) only
- Switchable low / high gain prevents overloading
- Gain adjustment between stages
- Low noise figure
- Fully shielded enclosure to eliminate interference

### Specifications

Product Code	FC658261	FC658267
Power Supply	Incl. PSU6F (F Type)	Not Incl.
Band I (45-70MHz)	Local 0 – 8dB, Remote 22 – 30 dB	
Gain	Local 0 – 8dB, Remote 22 – 30 dB	
Band III (174-230MHz)	Local 0 – 8dB, Remote 22 – 30 dB	
Gain	Local 0 – 8dB, Remote 22 – 30 dB	
Band IV/V (520-820MHz)	Local 0 – 10dB, Remote 24 – 34 dB	
Gain	Local 0 – 10dB, Remote 24 – 34 dB	
Max Output (-60dB) IMR)	104dBuV	
Noise Figure	<3.5dB (VHF), <2dB (UHF)	
Pager Notch Filter	N/A	
FM Band	N/A	
Cellular Notch Filter	>900MHz	
Power Supply	14VDC 150mA	
Sealing (housing)	IP55	
Dimensions	Masthead: 95 x 65 x 20mm Housing: 130 x 120 x 32mm	
Standards & Compliance	C-Tick Approved, CISPR13:2004	



## Masthead Amplifiers & Associated Equipment LARA UHF Amplifier



The Hills LARA is a UHF only masthead amplifier. It is suitable for domestic and commercial applications. The LARA amplifier has two stages of amplification - a low power and low noise preamplifier, followed by a more powerful second amplifier stage.

### Features

- Switchable Gain
- Gain Control
- Diecast Housing
- UHF only
- Power On Indication
- Cellular Filter
- Earth Point Attachment
- Weatherproof case

### Specifications

Product Code	FC658233
Type	Incl. PSU - PSU6F Blister Pack
Frequency response	
Band 4 & 5	520-860MHz
Gain	
Low	0-10dB
High	24-34dB
Notch Filters	
Pager	148-155MHz
Cellular	>900MHz
Maximum output	104dBuV (DIN45004B)
Noise figure	<2dB @ UHF
All connections	F Type
Power supply	14VDC / 150mA
Sealing	IP55
Standards & compliance	C-Tick Approved, CISPR13:2004

## Masthead Amplifiers & Associated Equipment Low Noise Digital Amplifier



The LNDA and LNDA Digital are low noise masthead amplifiers, designed and manufactured in Australia for situations where weak digital TV signals require boosting. The LNDA Digital amplifier is designed to amplify only digital TV channels (Band III and UHF).

### Features

- Amplify very weak TV Signals
- Power LED Indicator
- Analog & Digital Compatible
- Fixed Gain
- Switchable Inputs
- Pager / Cellular Notch Filters
- FM Pass & Low Noise

### Specifications

Product Code	FC658260	FC658203	FC658204
Power Supply	Incl. PSU5F (F Type)	Incl. PSU5F (F Type)	Incl. PSU10P (PAL Type)
Band I (45-70MHz)			
Gain	N/A	18dB	18dB
Max Output (-60dB IMR)	N/A	104dBuV	104dBuV
Band III (174-230MHz)			
Gain		21dB	
Max Output (-60dB IMR)		103dBuV	
Band IV/V (520-820MHz)			
Gain		24dB	
Max Output (-60dB IMR)		102dBuV	
Maximum input (composite)		78dBuV	
Noise Figure		<3dB	
Power Supply	14V-17VAC 150mA, or 14VDC 150mA		
Sealing (housing)	IP55		
Dimensions	Masthead: 95 x 65 x 20mm / Housing: 130 x 120 x 32mm		
Standards & Compliance	C-Tick Approved, CISPR13:2004		

# Amplifiers

## Distribution Amplifiers & Associated Equipment Minilink 25



The Minilink has been designed to provide adequate gain and output signal for use in small sized projects. The Minilink 25 features a unique positive 6dB slope. This slope increases to 8dB by use of the level control, as the gain is adjusted to minimum.

### Features

- Single Input, 2 Output
- Gain Control 21-28dB
- Positive 6dB slope built in
- Cellular phone filter incorporated
- CB filter incorporated (40MHz high pass)

### Specifications

Model	Minilink 25 (F Type)	Maxilink 35 (F Type)
Product Code	FC658112F	FC658002F
Frequency Range	45-860MHz	
Channel Coverage	0-69	
Gain (VHF)	14 - 24dB	23 - 33dB
Gain (UHF)	21 - 28dB	28 - 36dB
Output Level (VHF)	113dBuV	117dBuV (2 ch)
Output Level (UHF)	110dBuV	115dBuV (2 ch)
Noise Figure	<4.2dB	<5dB
Return Loss	10dB typ	>8dB
Test Point	N/A	N/A
Power Supply	220 - 240VAC	
Power Consumption	2 W	2 W
Dimensions (mm)	140 x 80 x 53	140 x 80 x 53
Packed Dimension (mm)	310 x 100 x 70	
Packed Weight	0.632kg	
Standards & Compliance	C Tick Approved CISPR13:2004	

## Distribution Amplifiers & Associated Equipment Maxilink 35



Like the Minilink this unit is intended for use as a distribution amplifier in small sized MATV systems.

However, it has a number of additional features.

### Features

- Choice of one input or separate VHF & UHF inputs. A switch permits use of this function.
- Independent gain controls for VHF & UHF
- These function whether one or both inputs are used.
- Higher output capability.

## Distribution Amplifiers & Associated Equipment Maxilink 40



A Broadband Distribution Amplifier designed to drive medium sized MATV systems. Split band circuitry permits high gain and output in a multi channel situation.

### Features

- All coaxial sockets are F type
- 3 separate input sockets for VHF low, VHF high and UHF band.
- Switches permit use of combined single input, two inputs (VHF/UHF) or all three inputs simultaneously.
- Separate gain controls allow balancing of levels of all 3 bands.
- Convenient – 30dB output test point.
- Overload LED indicator to warn of excessively high input signal.
- Built in filter reduces all signals of 30MHz and below.

### Specifications

Model	Maxilink 40
Product Code	FC658005A
Frequency Range	45-860MHz
Channel Coverage	0-69
Gain (VHF)	30 - 40dB
Gain (UHF)	30 - 40dB
Output Level (VHF)	120dBuV (2 ch)
Output Level (UHF)	116dBuV (2 ch)
Noise Figure	<5dB
Return Loss	>8dB
Test Point	-30dB
Power Supply	220 - 240VAC
Power Consumption	4 W
Dimensions (mm)	270 x 80 x 53
Packed Dimension (mm)	310 x 100 x 70
Packed Weight	0.632kg
Standards & Compliance	C Tick Approved CISPR13:2004

## Distribution Amplifiers & Associated Equipment TDA234 / HTA234 Distribution Amplifier



The TDA234 and HTA234 are high performance distribution amplifiers that are ideal for amplifying HD digital TV signals prior to distribution to multiple TV points.

### Features

- Variable gain up to 30 dB for VHF and 35 dB for UHF
- Separate VHF / UHF or combined mode
- Fully shielded die-cast enclosure
- 1 output and test port (-30 dB)
- Includes 12VDC power supply
- Selectable power to masthead amplifier
- Integrated F-type connectors
- Power Indicator

### Specifications

Model	TDA234	HTA234
Product Code	FC658246	FC658197
Band I (45-70 MHz)		
Max. Gain	N/A	30dB
Band III (174-230 MHz)		
Max. Gain		30dB
Band IV/V (520-820 MHz)		
Max. Gain		34dB
Max. Output (-60dB IMR)	116dBuV	115dBuV
Power Supply	12 - 16 VDC, 500mA	
Power Connector	2.1mm DC Jack, +ve tip	
Sealing (housing)	IP55	
Standards & Compliance	C-tick approved, CISPR13:2004	

# Amplifiers

## Splitter Amplifiers & Associated Equipment HTA108 Splitter Amplifier



The HTA108 is a simple splitter amplifier with 8 outputs, making it ideal for distribution of HD digital TV signals around domestic homes.

### Features

- 8 way splitter
- -3dB tap for cascading HTA108 units for extra outputs
- 6dB gain on each output
- Includes 12VDC power supply and line power injector
- Local or remote power
- Power on indicator
- Optional power pass to masthead amplifier
- Off-air in-circuit static protection

### Specifications

Product Code	FC658263
Power Supply	Incl.PSU6F (F Type)
Frequency Range	45-860MHz
Gain (per output)	6dB
Max Output (-60dB IMR)	97dBuV
Noise Figure	<6dB
Pager Notch Filter	148MHz
Power Supply	Incl. PSU9 & injector (F type)
Power Connector	2.1mm DC Jack, +ve tip
Standards & Compliance	C-Tick Approved, CISPR13:2004

## Splitter Amplifiers & Associated Equipment TDA104 / HTA104 Splitter Amplifier



The TDA104 / HTA104 are splitter amplifiers that provide 12dB gain on each output, for use in distributing TV signals around the home or block of units. HTA104 covers all analogue and digital TV channels, whereas the TDA104 filters signals out of the digital band for improved interference rejection and HD performance.

### Features

- 4 way splitter
- 12dB gain on each output
- Fully shielded diecast enclosure
- Includes 12VDC power supply and line power injector
- Local or remote power
- Power on indicator
- Optional power pass to masthead amplifier
- Off-air in-circuit static protection
- Integrated F type connectors
- Wall mountable for easy installation

### Specifications

Model	TDA104	HTA104
Product Code	FC658242	FC658181
Power Supply	Incl.PSU6F (F Type)	
Band I (45-108 MHz)		
Gain	< -25dB	11dB
Band III (174-230 MHz)		
Gain		11dB
Band IV/V (520-820 MHz)		
Gain		12dB
Max. Output (-60dB IMR)		103dBuV
Noise Figure		< 6dB
Pager Notch Filter	N/A	148MHz
Power Supply	14VDC 150mA	
Power Connector	2.1mm DC Jack, +ve tip	
Sealing	IP55	
Standards & Compliance	C-tick approved, CISPR13:2004	

## Splitter Amplifiers & Associated Equipment Power Supply Units

### PSU4P



BC87179  
15Vac@100mA  
PAL Connections

### PSU5F



BC71711  
15Vac@150mA  
F Type Connections

### PSU6F



BC71712  
14Vdc@150mA  
F Type Connections

### PSU9



FC658156  
12Vdc@1A REG  
2.1mm DC Plug

### PSU10P



BC74693  
14Vdc@150mA  
PAL Type Connections

## Splitter Amplifiers & Power Supplies Splitter Amplifier

### BA10



The BA10 Amplifier Splitter is a simple solution when a second TV or FM radio is to be run off the one antenna and the signal is not strong enough to support both. The BA10 plugs into the power socket behind the TV and provides two 75 Ohms outlets.

### BA2/18



A low cost, easy to use domestic amplifier boosts both VHF & UHF channels. Built in filter prevents FM radio interference, as well as minimising interference from Pagers and some Cellular Telephone Transmissions. Two output sockets to facilitate a second TV set.

### BA2/20



A low cost, easy to use domestic amplifier, boosts both digital VHF & UHF channels. Two output sockets facilitate connection of a second TV set or tuner.

## Specifications

Model	BA10	BA2/18	BA2/20
Product Code	FC606228B	FC658047A	FC658244
Channels	0 - 69	0-2, 6- 69	6 - 69
Gain (each outlet)	11 dB	18 dB	20 dB
Output Level (DIN 45004B)	96 dBµV	98 dBµV	100 dBµV
Noise Figure	4.5 dB	5 dB	3.5 dB
Power Consumption	240VAC 50 Hz ,1 W		
Standards and Compliance	C Tick Approved CISPR13: 2004		

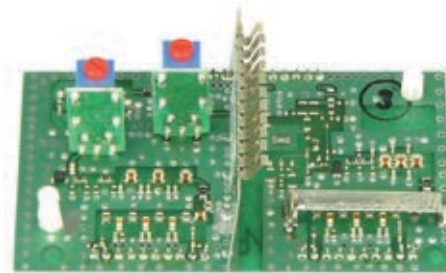
# Amplifiers

## Distribution Amplifiers & Associated Equipment Polytron

### MATV Distribution Amplifiers



### Return Path Modules



### Features

- Flexible return path concept
- 30 / 65 MHz by plug-in modules
- Output level up to 125 dB $\mu$ V or 116 dB $\mu$ V
- Gain up to 30 or 40 dB
- Compact aluminium housing IP 65

### Specifications

Product Code	BC71400	BC71401
Model	Modules Passive	Modules Active
Frequency Range	4...30MHz 4...65MHz	4...30MHz 4...65MHz
Gain	-1dB	20dB
Attenuator	1 Plug-in place	
Equalizer	1 Plug-in place	
Max. output level	-	117dBuV

### Specifications

Product Code	BC87212 / BC87213 HA30116F / HA30116N	BC71273 / BC74269 HA40125N / HA40125F	BC73787 HA30119N	BC71897 HB30115N
Frequency range	47 - 862 MHz oder 86 - 862 MHz*			
Return Path	4 - 30 MHz oder 4 - 65 MHz*			
Gain	30 / 40dB			30dB
Attenuator / Equaliser	Intersage plug-in place 2/interstage plug-in place 2			10dB
Noise figure	6dB	6.5dB	6dB	5dB
Output level dB $\mu$ V MHz	450	862	450	862
60 dB IMR <sub>3</sub> (DIN 45004B)	118	116	126	124
60 dB CTBA	-	100	-	109
60 dB CSO	-	94	-	109
Operating Voltage	27 - 70VAC		180 - 255 V / 27-70VAC	
Power consumption	6W		12 W	
Current Transit	2.5A		-	
Housing (W x H x D) mm	PA 60 (IP 65) 242 x 103 x 60 mm			(IP 65) 196 x 96 x 51 mm

\* Depends on the Return Path Module

## Headend Amplifiers & Associated Equipment Polytron

### Poly Compact SPM 2000 digi - Base Unit



#### Features

- Modular headend for small and medium sized systems
- Easy programming by LCD display
- 10 module slots
- Ideal for residence complex, hotels and hospitals
- Easy combination of several units
- Wall mounting or installation into 19" cabinet
- USB Firmware upgrade

#### Specifications

Product Code	BC81359
Module plug-in slots	10
LNB-supply	8 VDC 250 mA per input / max. 0,4 A
Frequency range	47-862 MHz
Return loss	14 dB
Output level 10 channels	100 dB $\mu$ V
Power supply	180 -265 V~ 50/60 Hz
Power consumption	max. 95 W
Housing (W x H x D)	433 x 244 x 177 mm
Operating temperature	0 - 50°C

### Poly Compact Base Units



#### Features

- For the insert of one (SPM100) or two (SPM200) modules of the PolyCompact series
- Integrated programming unit and amplifier
- Example SPM 200: one slot for a digital twin module and one slot for a twin modulator

#### SPM 100 - T

For the twin modulators SPM-MMT-Q and SPM-MST-Q

#### SPM 100 - TD

For SPM - TD and SPM - TDT modules - power supply 12Vdc @ 1 Amp. (BC7049)

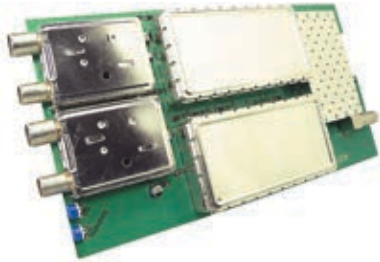
#### Specifications

Product Code	BC71726	BC72217	BC73089
Model	SPM 100-T	SPM 100-TD	SMP 200-P
Plug-in place	1		2
Output level	105 dB $\mu$ V		102 dB $\mu$ V
Operating voltage	12 V		12V
Output voltage	-		-
Dimensions (mm)	40 x 285 x 145		87 x 294 x 147

# Amplifiers

## Headend Amplifiers & Associated Equipment Polytron

### Terrestrial Channel Converter



#### Features

- Converts an analogue or digital terrestrial channel
- Adjacent channel operation
- Low phase noise

#### Specifications

Product Code	BC76915
Model	SPM-TDTQ
Operating mode	digital-TV/TV
Input frequency range	45 - 862 MHz
Input level	65 - 85 dB $\mu$ V
AGC	65 - 85 dB $\mu$ V
Output frequency range	45 - 862 MHz
TV-standard	B/G, D/K, I, M, N
Spurious emission	> - 60 dB
Output level	95 dB $\mu$ V
Variable attenuator	0 - 10 dB
Power consumption	6.5 W

### MS4 Modulator 4 Channel



#### Features

- Adjacent channel operating
- Audio input level adjustable
- Four Independent channels on one module

#### Specifications

Product Code	BC73996	BC74234
Model	SPM-MS4 B/G	SPM-MM4 B/G
Operating mode	AV/TV Stereo	AV/TV Mono
Input level	1 Vpp ( $\pm$ 1 dB) 75 $\Omega$	
Bandwidth	20Hz - MHz	
Audio		
Input level	1 Vpp / 10k $\Omega$	
Bandwidth	40Hz - 15kHz	
Output		
TV-Standard	B/B, B/G	
Signal to noise	58dB	
Output level	95 dB $\mu$ V	
AV connection	SUB-D	
Frequency range	45 - 862MHz	
Others		
Power consumption	8.6 W	7.6 W
Weight	0.53kg	



## Headend Amplifiers & Associated Equipment Astro

### COFDM-COFDM Twin Processor



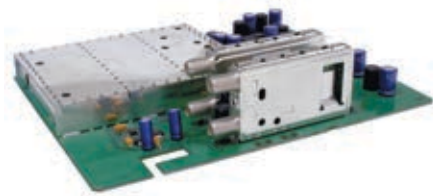
#### Features

- For conversion and input of terrestrial TV-programs in existing CATV- or SAT-IF
- DVB-T > DVB-T or PAL > PAL possible
- Automatic input level adjustment
- Electronic level adjustment
- X-DTU duo offers 2 independent programmable output channels

#### Specifications

Product Code	BC75080	
Model	COFDM - COFDM Twin	
Input		
Impedance	Ω	75
Connections	IEC jacks	
Input frequency range	MHz	47 - 862
Input level		
Analogue / Digital	dBμV	50 - 80 / 40 - 70
Return loss	dB	typ. ≥ 8
TV standard	DVB-T 7/8 MHz	
Control range for level control	dB	> 45
Output (RF modulator)		
Output frequency	MHz	47 - 862 / C 2 - C69
Output level		
Analogue / Digital	dBμV	90 - 100 / 85 - 95
Intermodulation distance	dB	typ. 60
Return loss	dB	> 10
Common data		
Power consumption	W	11,5
Ambient temperature	°C	0... + 50

### QPSK - QAM



#### Features

- Used for processing and conversion of two QPSK or 8PSK satellite IF signals into QAM modulated adjacent channels in the frequency range 47 – 862MHz
- Integrated stuffing unit, PCR correction, PID filtering as well as NIT construction (Twin 5 & Twin 6S2) only, these cards suit a variety of today's and future applications.
- HDTV applications and QAM 256 with MER 45dB, Twin 6S2
- The two output channels can be switched on and off separately from one another
- Each board has a level control for matching each output RF channel.
- Foxtel approved F30280 & F30267
- Austar approved - BC72785

#### Specifications

Product Code	BC80510	BC72785
Model	QAM Quad	QAM Twin 6S2
Input Demodulator		
QPSK Demodulator	Yes	Yes
DVB-S2	Yes	Yes
Input Frequency Range	920 - 2150MHz	
Input Level / Ω	50 - 80dBuV / 75	
Input Data Rate	10 - 30MS/s	2.4 - 30MS/s
Viterbi	1/2, 2/3, 3/4, 5/6, 7/8 Auto & Manual	
Roll Off	35%	
QAM Modulator		
Modulation	16 - 256QAM	
COS Roll Off	15%	
FEC	Reed - Solomon (204, 188) - Code	
PCR	Yes	Yes
PID Filtering	Yes	Yes
NIT Construction	Yes	Yes
Output Symbol Rate	3.45 - 7.1 Ms/s	
Bandwidth	4 - 8MHz	
RF Output		
Connection	IEC Male	
Frequency Range	47 - 862MHz	
Output Level	80 - 90dBuV adjustable	
MER (64 QAM Equalizer)	45dB	45dB
Temperature Range	0 - 50°C	

## Headend Amplifiers & Associated Equipment Astro

### V16 Base Unit



### Bus Controller



### Features

- 8 slots for the connections of different plug in cards for the conversion of digital Satellite and Terrestrial TV signals.
- Complete with temperature controlled cooling fans, 6-input & 16-output multiswitch, cover case and rack mounting kit.
- Power supply interchangeable without disassembling plug in cards.
- Integrated Bus adaptor allowing fully maintained and programmed remotely.
- 230Vac / 50Hz with operating temperature 0 - 50°C
- 7 RU high, (340mm x 426mm x 277mm)
- Foxtel approved – F30265
- Austar approved – V16.4

### Features

- Time-controlled update
- Transmission of SNMP traps
- Permanent testing of HE operating parameters
- Automatic programming of exchanged head-end modules
- Programming of up to 10 time-shared channels
- 2 programmable alarm contacts for the connection of alarm detectors (fire detector, water detector...)
- Also available as U 953 19inch version with redundant power supply 2 x 230VAC
- Configuration via HE programming software and web browser
- Austar approved

### Specifications

Product Code	BC74691	
Model	V16.4	
Configuration components		
8 plug in slots	✓	
Bus adaptor	✓	
2 temperature-controlled cooling fans	✓	
Power supply VSN 1	-	
Power supply VSN 2 (redundant)	✓	
SAT-distribution board VMS 616	✓	
Common data		
Supply voltage	V~/Hz	230 / 50
EMC	compliant EN 50083 T2 /A1	
Ambient temperature	°C	0 ... +50
Dimensions (W x H x D)	340x426x277 (19"/7 HE base)	
with mounting brackets front	mm	340 x 491 x 277
with mounting brackets back		340 x 491 x 290
		+ 3 HE for Air Flow units VAF
Weight	kg	9,6
Power consumption	W	maximal 200

### Specifications

Product Code	BC75085	
Model	U-953	
Power supply	V	2 x 230 AC
Power consumption	A	0,19 - 0,34
Ambient temperature	°C	0...+45

### Programming Software and Cables

#### BC72262

- Null modem cable and Bus adaptor for PC – Base Unit communication.
- CD with programming software, update software and configuration files.
- RS232 cable

## Headend Amplifiers & Associated Equipment Adjacent Channel Equaliser

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Coming Soon



The Adjacent Channel Equaliser is a channelized headend designed and manufactured in Australia for digital TV and is the first headend capable of true adjacent channel adjustability.

With triple filtering for super-selectivity, each module can individually adjust the level of a 7MHz TV channel.

### Features

---

- Individual channel level adjustment of up to 15dB – suitable for adjacent channels
- Excellent MER performance
- Up to eight FTA channels
- Modules can be re-programmed
- AGC to cater for input signal variations
- Output level : 95dB $\mu$ V (8 channels)
- Wall or rack mountable
- Hot swappable modules



# Passives

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Diplexers, Triplexers & In Line Filters .....	49

## Splitters 5-2400MHz

When it comes to Engineered For Digital installations, the screening factor of all components becomes very important. A high screening factor is one of the many advantages that F type connectors have over the older screw and saddle style of product.



- Wideband 5-2400MHz
- Golden type connector pins
- Zinc Diecast Hybrid Housing
- Satellite compatible
- Two way System Compatible
- High RF Shielding 80Rfi
- 75 ohm Impedance
- High Return Loss
- Better than 20dB
- Earth Connection

### Specifications

Electrical	2 way	3 way	4 way	6 way	8 way
AC/DC One Port	BC15173S	BC15167S	BC15470S	BC15252BP	BC15253BP
DC Pass All Ports	BC15482S	BC15166S	BC15484S	BC15164S	BC15254S
Insertion Loss (Max.)					
5-40	4.4	6.7	8.3	10.5	13.5
40-1000	4.3	6.7	8.2	10.5	13.5
1000-1750	4.5	8.8	10	11	14
1750-2050	6.3	10	11	13	14.3
2050-2400	7.0	11.2	12	15.5	16
Isolation (Min.)					
5-40	17	19	15	22	22
40-1000	22	25	25	25	17
1000-1750	25	25	22	24	20
1750-2050	25	25	22	22	20
2050-2400	25	25	17	22	18
Return Loss (Min.) In/Out Port					
5-40	15	16	15	7	6
40-1000	14	16	15	7	6
1000-1750	14	15	12	15	14
1750-2050	15	15	12	12	12
2050-2400	15	14	12	12	12
Return Loss (Min.) Tap Port					
5-40	10	10	8	9	8
40-1000	15	18	15	15	12
1000-1750	14	15	18	14	15
1750-2050	14	14	12	12	13
2050-2400	14	12	12	12	12

## Directional Couplers Taps Satellite (15-2150 MHz)

### 1 Way



Tap 1 Way - 10dB  
BC75183

Tap 1 Way - 15dB  
BC75184

### 2 Way



Tap 2 Way - 10dB  
BC75055

Tap 2 Way - 15dB  
BC75056

Tap 2 Way - 20dB  
BC75057

### 4 Way



Tap 4 Way - 10dB  
BC74894

Tap 4 Way - 15dB  
BC74893

Tap 4 Way - 20dB  
BC74892

Tap 4 Way - 25dB  
BC74891

Tap 4 Way - 30dB  
BC15291

### 8 Way



Tap 8 Way - 20dB  
BC15295

Tap 8 Way - 25dB  
BC15296

Tap 8 Way - 30dB  
BC15297

### Features

- Wideband 15 to 2150 MHz
- Golden type connector pins
- Zinc Diecast Hybrid Housing
- Satellite compatible
- Two way system compatible
- High RF shielding 80Rfi
- 75 ohm Impedance
- High Return Loss
- Better than 20dB
- Earth connection

### Specifications

#### Electrical

Bandwidth	10MHz – 2300MHz
Insertion Loss (Max.)	
40-1000MHz	5.5
1000-1750MHz	6.0
1750-2050MHz	6.5
Isolation (Min.) Out -Tap	
40-1000MHz	25/25
1000-1750MHz	30/23
1750-2050MHz	30/20
Tap Loss (+/-)	
40-1000MHz	2
1000-1750MHz	2
1750-2050MHz	2
Return Loss (Min) In/Out - Tap	
40-1000MHz	12/15/12
1000-1750MHz	12/13/12
1750-2050MHz	12/12/15
DC Pass In-Out	Yes

## Directional Couplers Splitters & Taps Terrestrial (5-860MHz)

Taps are widely used in 860MHz frequency range, where a signal trunk cable is run / dropped down the riser or along a corridor. Different tap values are used to balance out the system.

### Taps



Frequency Range 5-860MHz  
Power through IN – OUT ports  
Zinc Diecast housing  
Two way system compatible  
75 Ohm Impedance  
Earth Connection

### Specifications

#### Electrical

Product Code	BC71723	BC71724	BC71725
Value	10dB	15dB	20dB
Tap Loss (VA.+/-)			
40-550MHz	1.0	1.0	1.2
550-860MHz	1.5	1.2	1.0
Insertion Loss (Max.)			
40-550MHz	3.8	2.2	1.0
550-860MHz	4.0	2.4	1.2

### TDT Taps



4 Way  
BC81327  
F30738



8 Way  
BC81326  
F30737

#### Electrical

Product Code	BC81327	BC81236
Value	12dB	15dB
Tap Loss (VA.+/-)		
40-550MHz	1.0	1.0
550-860MHz	1.5	1.2
Insertion Loss (Max.)		
40-550MHz	3.8	2.2
550-860MHz	4.0	2.4

### Slim line Taps



6dB - BC81259  
9dB - BC81260  
12dB - BC81261  
15dB - BC81262

#### Electrical

4 Way Directional Couplers (5-860MHz)				
Product Code	BC81259	BC81260	BC81261	BC81262
Value	6dB	9dB	12dB	15dB
Tap Loss (VA.+/-)				
40-550MHz	1.0	1.0	1.2	1.2
550-860MHz	1.5	1.2	1.0	1.0
Insertion Loss (Max.)				
40-550MHz	3.8	2.2	1.0	1.0
550-860MHz	4.0	2.4	1.2	1.2

### Splitters



2 Way  
BC75368

4 Way  
BC75369

6 Way  
BC79382

8 Way  
BC79381

#### Electrical

Splitters (5-860MHz)	2 way	4 way	6 way	8 way
Product Code	BC75368	BC75369	BC79382	BC79381
Insertion Loss (Max.)				
5-40	4.0	8.0	10.0	12.0
40-860	4.0	8.0	10.0	12.0
Isolation (Min.)				
5-40	18	18	16	16
40-860	25	25	25	25
Return Loss (Min.) In/Out Port				
5-40	15	15	15	15
40-860	15	15	15	15



## Diplexers & In Line Filters

### Digital Diplexer Indoor - F Type



Free To Air / Satellite  
Inputs: LO 45-860MHz, HI 900-2400MHz  
BC44021



Diplexer V/U Indoor Topless  
BC81258

### Digital Diplexer Outdoor



DIY Diplexer Outdoor Kit  
FC658239



UHF / VHF F Type With Power Passing  
FC658229



Diplexer UHF/VHF Saddle Type  
BC3624

### SAT / FTA Diplexer

SAT / FTA Diplexer  
Insertion Loss: 45-862MHz < 1dB  
Insertion Loss: 950-2050MHz



Clipsal (Pack of 1)  
Foxtel approval number: F10468  
BC89239A

HPM (Pack of 1)  
Foxtel approval number: F10469  
BC89240A

### SAT / FTA Diplexer

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Foxtel approval number: F10468  
BC89239A

HPM (Pack of 1)  
Foxtel approval number: F10469  
BC89240A

### Filter F Type In Line



9A DAB  
BC75995



FM Filter 45dB Rejection (88-100MHz)  
FC658084



Filter High Pass 174MHz FIFN1  
FC658258



High Pass Filter 519MHz - UHF  
FC658268



TV Isolator Surge protector  
FC658082



# Coaxial Cable

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# Coaxial Cable

## Hills RG Coaxial Cable

### RG59

RG59 Standard Unbonded 100m  
BC71135A



HDTV Black  
BC72414

HDTV White  
BC72415

### RG11

RG11 Quad Flooded  
305m Wooden Reel  
BC46071A



RG11 Quad 305m  
Wooden Reel  
BC46070A

### RG6

RG6 Standard Bonded 100m  
BC46065A



RG6 Trishield  
305m Wooden Reel  
BC46076A

RG6 Trishield Siamese  
152m Reel  
BC75757

RG6 Tri-Flooded  
500m Wooden Reel  
BC71175

RG6 Quadshield 100m  
BC46062A

RG6 Quad 305m Wooden Reel  
BC46061A

RG6 Quad 305m Cable Box  
BC46060A

RG6 Quad Siamese 152m Wooden  
Reel  
BC72384A

### RG6



RG6Q FTA 305m Wooden Reel  
BC80375



RG6Q FTA 305m Reel in a box  
BC80376



RG6Q FTA HD 100m - White  
Wooden Reel  
BC81345

### CABLE ROLLER RG59/6



BC2843

## Hills RG Coaxial Cable

### Specifications

#### Cable Construction

Item	RG59		RG6			RG11	
	Standard Shield	Standard Shield	Trishield	Tri-flooded	Quadshield	Quadshield	Quad-flooded
	BC71135A	BC46065A	BC46076A	BC71175	BC46062A BC46060A BC46061A	BC46070A	BC46071A
Inner Conductor Dia. (mm)	0.81	1.02	1.02	1.02	1.02	1.63	1.63
Insulation Dia. (mm)	3.66	4.57	4.57	4.57	4.57	7.11	7.11
First Layer Shield Dia. (mm)	3.82	4.75	4.75	4.75	4.75	7.28	7.28
Jacket Dia. (mm)	6.1	6.9	7.05	7.05	7.62	10.3	10.3
Capacitance (pf/m)	53	54	54	54	54	51	51
Characteristic Impedance (W)	75	75	75	75	75	75	75
Insulance (MW/Km)	5000	5000	5000	5000	5000	5000	5000
Dielectric Strength (V)	1500	1500	1500	1500	1500	1500	1500
Velocity of propagation (%)	85	85	85	85	85	85	85

Frequency (MHz)	Attenuation @ 20°C dB/100m		
	RG59	RG6	RG11
5	2.82	1.90	1.16
55	6.73	5.25	2.96
211	12.47	10.00	5.78
250	13.45	10.82	6.35
350	15.75	12.63	7.65
400	16.73	13.61	8.25
450	17.72	14.43	8.79
550	19.52	16.08	9.82
750	22.87	18.54	11.62
865	24.67	20.01	12.58
1000	26.64	21.49	13.64
1200	-	23.89	14.62
1450	-	26.30	16.01
2000	-	32.00	20.00

# Coaxial Cable

## Belden RG Coaxial Cable

### RG59



Home Theatre RG59  
Red - BC46067  
Yellow - BC46068  
Blue - BC46069  
Green - BC46074

### RG6



RG6 Tri Shield Flooded - 305m  
BC46048 (Foxtel Approved)

RG6 Tri Shield - 305m  
BC46044 (Foxtel Approved)

RG6 Tri Shield Messenger  
305m  
BC46047

### RG11



RG11 Quadshield - 305m  
BC46034 (Foxtel Approved)

RG11 Quadshield Flooded  
305m  
BC8713 (Foxtel Approved)

### RG6Q



RG6 Quad - 30m Reel  
BC74421

RG6 Quadshield - 100m Reel  
BC72479

RG6 Quadshield - 305m Box  
BC46040

RG6 Quadshield - 305m Reel  
BC46032 (Foxtel Approved)

RG6 Quadshield Flooded - 305m  
BC87149 (Foxtel Approved)

RG6 Siamese Quadshield - 152m  
BC71502 (Foxtel Approved)

## Specifications

### Cable Construction

Part Number	BC46032	BC71502
Number of Coax	1	2
Total number of conductors	2	
AWG Stranding	18	
AWG Conductor Diameter	1.016mm (nominal)	
AWG Conductor Material	BCCS - Bar Copper Covered Steel	
Insulation material	Gas-injected FPE - Foam Polyethylene	
Insulation Diameter	4.572mm (nominal)	
Outer shield	1st layer- Bonded Al foil (100% coverage) 2nd layer- Al braid (60% coverage) 3rd layer- Al foil/Polyester/Al foil (100% coverage) 4th layer- Al braid (40% coverage)	
Outer Jacket Material	PVC - Polyvinyl Chloride	
Outer Jacket Colour	Black	
Outer Jacket Diameter	7.3 x 15.0mm (nominal)	
<b>Mechanical Characteristics</b>		
Cable Weight	99 kg/km	
Pulling Tension	720 N (maximum)	
Bend Radius (Install)	76.2 mm (minimum)	
Sweep Testing	5 MHz to 1 GHz	
Operating Voltage	350 Vrms (maximum)	

### Electrical Characteristics

Impedance (ohm)	75 +/-3 Ohms
Nom. Inductance	0.318 Micro-H/m
Nom. Capacitance Conductor to Shield	53.14 pF/m
Nom. Velocity of Propagation	82%
Nom. Delay	3.94 ns/m
Structural Return Loss	5 to 1000 MHz: 20 dB (min.)
Nom. Cond. DC Resistance @20°C	102 Ohms/km
Nom. Shield. DC Resistance @20°C	23.6 Ohms/km

Frequency (MHz)	Attenuation @ 20°C dB/100m
5	2.20
55	5.25
211	9.41
270	10.63
300	11.25
350	12.20
400	13.15
450	13.97
550	15.45
750	18.34
870	19.68
1000	21.45

# Connectors & Adaptors

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# Connectors & Adaptors

## Hex Crimp, Linear & Radial Compression & Twist RG59 Connectors

---

### RG59 Connectors

#### F Type



Double Bubble  
BC73888



Hex Crimp - F Type  
BC2090

---

#### Twist



RG59 Twist  
BC88095

---

#### RCA Male



Compression Double Bubble  
RCA Male Silver  
BC73004

---

#### IEC PAL



Hex Crimp IEC PAL Male  
BC3722

---

### BNC



Double Bubble BNC Silver  
BC72224

---

### PAL



Coax Plug - PAL Male  
(Pack of 25)  
BC810



Coax Socket - PAL Female  
(Pack of 25)  
BC824



# Connectors & Adaptors

## Hex Crimp, Linear & Radial Compression & Twist RG6 & RG11 Connectors

### RG6 Connectors

#### F Type



Hex Crimp - F Type  
BC2092  
BC2092BP (Pack of 10)



Hex Crimp - F Type - Silicon Seal with  
O Ring  
BC15203A



DIY Lock On Connector  
FC658265



Compression F Type  
BC80490  
Double Bubble RG6Q-Foxtel  
BC88097 - DS6Q

#### Twist



RG6 Twist  
BC14302  
BC14302BP (Pack of 6)

### IEC PAL



Hex Crimp IEC PAL Type  
BC87157 - Male  
BC87156 - Female



Compression Double Bubble  
IEC PAL Male  
BC72483A



Compression Double Bubble  
IEC PAL Female  
BC72484A

### BNC



BNC Double Bubble - Silver  
BC72225

BNC Hex Crimp  
BC15208

### RG11 Connectors

#### F Type



Hex Crimp F type Integrated Pin  
BC15225



Hex Crimp F type Separate Pin  
BC2094



Compression F type  
BC89237

# Connectors & Adaptors

## Connectors & Accessories Mini, Hardline & Terminators

### Hardline Connectors



F Male Type  
BC71178

### Terminators



F Type  
BC72028

### Connector Accessories - F Type Nuts & Washers



Nut  
BC15352



Washer  
BC15353

## Adaptors F Female & IEC Type

### F Female



F Male Right Angle to F Female  
BC3720HR



F Male Push on Quick Fit  
BC71710



BNC Male to F Female  
BC3710



RCA Male to F Female  
BC15308



RCA Male - BNC Female  
BC71709

### IEC Type



IEC PAL Male  
BC3718



IEC PAL Female to F Female  
BC15298



IEC PAL Female - IEC PAL Female  
BC3618  
BC812 (Pack of 25)



IEC Male - IEC Male  
BC3668



IEC PAL Female Right Angle to  
F Female  
BC15316



IEC PAL Male Right Angle to  
F Female  
BC87045

## Adaptors F Male & F Barrels

### F Male



IEC PAL Male to F Female  
BC71578



IEC PAL Female to F Male  
BC5728



F Male to F Male  
BC15306



F Male - F Male Quick Fit Push On  
(Pack of 5)  
BC71622

### F Barrels



High Return Loss 2GHz  
BC71150



F81-21mm  
BC15177  
BC15177BP (Pack of 25)



High Return Loss Complete  
with Clipsal insert (Pack of 5)  
BC80512



High Return Loss Complete  
with HPM insert (Pack of 5)  
BC80522

## Adaptors RCA & Attenuators

### RCA



RCA Female to BNC Male  
BC15301

RCA Male to BNC Female  
BC71709

### Attenuators

#### F Type

3dB In Line  
BC502



6dB In Line  
BC504

10dB In Line  
BC15377

12dB Low Band - Channels 0-2  
FC658072

#### F Type Power Passing

3dB In Line Power Passing  
BC87185



6dB In Line Power Passing  
BC15376

10dB In Line Power Passing  
BC87186

20dB In Line Power Passing  
BC15379



# Satellite Equipment

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# Satellite Equipment

## Satellite Equipment Dishes, Sharp LNBF, Power Inserter & Satellite Finder Kit

### Commercial Dishes



90cm Commercial Dish  
BC3904

120cm Commercial Dish  
BC3903

### Dishes



65cm Dish  
FF200020

80cm Dish  
FF607018A



65cm Dish RV Pack  
FF200023

80cm Dish RV Pack  
FF200022A

### Specifications

Product Code	FF200020	FF607018A
Model	65cm Satellite Dish	80cm Satellite Dish
Reflector Type	Offset elliptical, cross formatted	
Gain @ 12.5GHz, typical	36.5 dBi	39.5 dBi
Cross Polarisation (to 1dB copolar beamwidth)	<-25dB	<-30dB
Off Axis Sidelobe Performance	Complies with 29-25log( $\theta$ ) if correctly illuminated	
G/T @ 12.5GHz 30° elevation (LNB NF = 0.9dB)	16.3 dB/K	19.6 dB/K
Offset Angle	20.1°	18.2°
Elevation Adjustment	10° to 80°	
Dimensions (width x height)	685mm x 600mm	900mm x 806mm
Wind Load @ 50m/s	0.54 kN	1.18 kN
Mast Diameter	44.5mm	38mm to 52mm
Operational Wind Speed	100km/hr gusting 130km/hr	-
Survival Wind Speed	Maintains survival condition at 200km/hr	-
Feed Clamp Diameter	40mm	
Reflector Material	Zinc Coated Steel G2 Z2275 or equivalent	
Fasteners	Metric hexagon & combination recess head, zinc plated & ceramic anti-corrosion coated or chromate passivated to AS1897-1976 & AS1789-2003	
Surface Coating	Electrostatic Polyester Dark Grey to BS3900	
Service Life	Reflector tested to 800 hours salt spray exposure to ASTM B117-94 in accordance with AS3715-1989	

### LNBFs Sharp



Single 10.7 GHz L.O.  
BC49157

Twin 10.7 GHz L.O.  
BC49162



Quad 10.7 GHz L.O.  
BC49161

Single 11.3GHz L.O.  
BC49163

### Twin LNB Power Inserter



BC88213A

### Features

- Designed with low loss and high performance
- High Ingress Retention
- Easily mountable
- Foxtel approved

### Specifications

DC Pass	DC IN - LNB B - 18V 300mA max. DC IN - LNB A - 13V 300mA max.
Power Supply	24Vdc 500mA
Foxtel Approval Number	10470

### Satellite Finder Kit



BC75873

## Satellite Equipment Multiswitches - Standalone

### 2 Input & 4 Output



BC74279H

### 3 Input & 4 Output



BC89340H

### 2 Input & 8 Output



BC74623H

### 3 Input & 8 Output



BC89380H

### 2 Input & 12 Output



BC71246H

### Features

- Compact and light weight
- Earth attachment point
- Output ports one sided
- Digital & analogue compatible
- Power through to LNB
- Easy to install
- European design

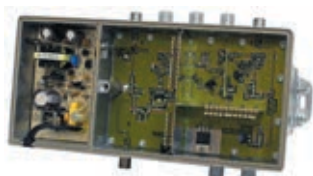
### Specifications

Product Code	BC74279H	BC74623H	BC71246H	BC89340H	BC89380H
Model	2 Input / 4 Output	2 Input / 8 Output	2 Input / 12 Output	3 Input / 4 Output	3 Input / 4 Output
Inputs	H/V	H/V	H/V	H/V/FTA	H/V/FTA
Outputs	4	8	12	4	8
Frequency Range FTA	N/A	N/A		45 -862MHz	45 -862MHz
Frequency Range IF			950 - 2050MHz		
Insertion Loss FTA	N/A	N/A	N/A	12dB	17dB
Insertion Loss / Gain IF			0 +/-2dB		
Foxtel Approval Number	F30521	F30522	-	F10467	F10549

# Satellite Equipment

## Satellite Equipment Polytron

### SAT-Insertion Amplifier



BC88200

### SV 232 In-Line Amplifier



BC75459

### Features

- For combination of SAT-IF and terrestrial signals
- Remote feeding of LNBs via SAT-IF input
- Remote feed voltage 0/13/18V
- Aluminium die-cast housing IP65
- Prepared for DIN-rail mounting

### Features

- DC bypass
- Transit of superimposed
- Control signal
- F connectors

### Specifications

Product Code	BC88200	
Model	SEV 40120 N/13-18V	
Frequency range	47 - 862 MHz	900 - 2400 MHz
Gain	-1 dB	40 dB
Variable attenuator	-	0 - 20 dB
Equalizer	-	0 - 20 dB
Output level	-	120 dBuV
Noise Figure	-	< 9 dB
Remote feeding voltage	0/13/18 V max 250 mA	
Operating voltage	207 - 253 V ~ / 6.5 - 12 W	

### Specifications

Product Code	BC75459
Model	SV 232
Frequency range	950-2300 MHz
Gain	20-26 dB
Outputlevel 35 dB IMA3	105 dBμV
Noise figure	< 5 dB
Supply voltage, operating voltage	12-18 V=
Passage of current	1 A
Power consumption	80 mA
Dimensions	ø 21 mm, L 75 mm



# Field Strength Meters

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Master STC Meter .....	66
HD Series.....	66

# Field Strength Meters

## Field Strength Meters Master STC Meter

### Master STC Meter



DVB-S / S2  
(930-2250MHz)  
DVB-T (4-1000MHz)  
DVB-C (4-1000MHz)  
Foxtel Approved

BC75051A

### Features

- Digital TV COFDM (4-1010MHz)
- QPSK (930-2250MHz)
- Digital & Analogue Spectrum
- MER & SNR
- aBER & bBER
- Symbol rate 2-45 MS/s
- LNB L.O> 0-20,000MHz
- Noise Margin
- MPEG service list (ie.Nat Geo, BBC HD)
- Orbital position, transponder names and encryption system
- Battery duration up to 2 hours
- Weight: 1.1kgs

## Field Strength Meters HD Series

### HD Compact STC



BC84087

### Features

- 4.3" TFT Colour Screen
- Widescreen 16:10 Ratio
- HD FTA Pictures in SAT and TV
- MPEG2 - 4
- Up to 6 Hour Battery life
- DVB-S / S2
- DVB-T / DVB-C
- Level, MER, SNR, BER
- Carry bag
- H 8cm x L = 23cm x D = 17cm
- Weight = 1.6kgs



Terrestrial Digital Measurements



Terrestrial Digital Spectrum Measurements



Terrestrial Digital Constellation Measurements



BAR Scan showing both Analogue and Digital Channels



Satellite Digital Measurements



Satellite Digital Spectrum Measurements



Network ID information both Terrestrial and Satellite

## Field Strength Meters HD Series

### HD Touch



BC81313  
Foxtel Approved  
F30786

### Features

- 7" TFT Colour screen
- 16:10 Aspect Ratio
- DVB-T
- DVB-T2
- DVB-S / S2 / DVB-C
- MPEG – 2 & 4 / SD & HD
- Dolby Digital Audio
- AV inputs and outputs
- HDMI output
- Battery life up to 8 hours
- 2.5kg

### HD Flash



BC81341  
Foxtel Approved  
F30744

### Features

- 7" TFT Colour screen
- 16:10 Aspect Ratio
- DVB-T
- DVB-S / S2 / DVB-C
- MPEG – 2 & 4 / SD & HD
- Dolby Digital Audio
- AV inputs and outputs
- HDMI output
- Battery life up to 8 hours
- 2.5kg





# Exterity - IPTV

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# Exterity - IPTV

## IPTV Chassis

The AvediaStream series comprises of module slots capable of accepting any Exterity AvediaStream Blade. All slots are capable of streaming pre-recorded and live TV and radio (news, sports, entertainment, educational) HD and SD channels over your existing network.

### AvediaStream c1110



BC77135

### AvediaStream c1103



BC78499

### Features

- Easy setup
- Hot-swap components allow quick and non-intrusive upgrades to existing installations and provides a high level of redundancy.
  - Ten fully independent module slots
  - Up to three hot swap PSUs
  - Five hot swap fan modules
- Passive backplane for cutting edge IPTV reliability
- Aluminum chassis for lighter weight and easy to use carry/rack positioning handles
- 19" rack mountable
- Suitable for HD or SD content

### Specifications

#### Interfaces

- Ten independent 802.3 10/100/1000 Ethernet (RJ-45 socket)\*
- Ten independent Serial RS232 Port for local administration (RJ-45 socket)
- Individual status LEDs per slot for blade present, heartbeat, Ethernet link and Ethernet activity

#### Power

- Up to three hot-swap 110-240v (50Hz-60Hz) 300W PSUs with individual power cords.
- Enabling N+1 PSU redundancy
- Power consumption: 10-500W (depending on config)  
\*Blade support required
- Physical Dimensions
  - Height: 180 mm (7 inch)
  - Width: 444 mm (17.5 inch)
  - Length: 274 mm (10.79 inch)
- Standard 19 inch server rack occupying 4u
- Weight: 6.0kgs

### Features

- Easy setup
- Three fully independent hot swap module slots allows quick and non-intrusive upgrades to existing installations and provides redundancy.
- Passive backplane for cutting edge IPTV reliability
- Desk and 19" rack mountable
- Suitable for HD or SD content

### Specifications

#### Power

- Internal 110-240v (50Hz-60Hz) 150W PSU
- Power consumption: 10-150W (depending on configuration)

#### Physical Dimensions

- Height: 44mm (1.73 inch)
- Width: 444mm (17.5 inch)
- Length: 274mm (10.79 inch)
- Standard 19" server rack occupying 1u
- Weight: 4.0kgs

## IPTV Chassis

The AvediaStream c1101 chassis comprises of a single hot-swap module slot capable of accepting any Exterity AvediaStream Blade. The slot is capable of streaming pre-recorded and live TV and Radio (news, sports, entertainment, educational) HD and SD channels over your existing network.

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### AvediaStream c1101



BC78100

### Features

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- Easy Setup
- Single convenient hot-swap module slot
- Passive backplane for cutting edge IPTV reliability
- Highly portable
- Desk mountable
- Suitable for HD or SD content

### Specifications

---

#### Power

- External in-line 110-240v (50Hz-60Hz) 50W PSU
- Power consumption: 10-50W (depending on configuration)

#### Physical Dimensions

- Height: 44 mm (1.7 inch)
- Width: 132 mm (5.2 inch)
- Length: 274 mm (10.79 inch)
- Weight: 1.5kgs

## IPTV Gateways

The AvediaStream g4130 gateway streams live TV and Radio (news, sports, entertainment, educational, etc) channels over your existing network. It distributes free to air TV content from two DVB-T terrestrial sources to an IP network.

### AvediaStream g4130



BC77137

### Specifications

#### Streaming

- Up to 80Mbps output per blade or stream
- Single/multiple program MPEG-2 transport streams (ISO/IEC13818-1)
- PMT and PAT regenerated to reflect filtered program contents
- RTP
- UDP
- IP multicast
- IP unicast
- IGMP v3
- Channel announcement using SAP/SDP

#### Network

- Linux IPv4 stack
- DHCP or Static IP addressing
- IEEE 802.3u 10/100Mbps MDIX Ethernet

#### Power

- DC 24V: 13W Typical, 16W Maximum

#### Dimensions

- L: 275mm x W: 130mm x H: 40mm
- Weight: 0.5kgs

### Features

- Easy Setup
- Hot swap module allows quick and non intrusive upgrade to existing installations
- Streams both SD and HD Channels simultaneously
- Two DVB-T tuners per blade for twice the number of potential TV or radio channels compared to single tuner devices
- Advanced PID filtering for fine-grained control over audio, subtitles and other channel metadata
- Embedded system for high reliability and low power consumption

More information on TVgateways

	g4130	g4135	g4150	g4155	g4170	g4190	g4210	g4215	g4230	g4235
DVB-C			✓	✓					✓	✓
DVB-T	✓	✓							✓	✓
DVB-T2										
DVB-S							✓	✓		
DVB-S2							✓	✓		
SC/clear QAM					✓					
ASI						✓				
uner/CAM		✓		✓				✓		✓
Tuners	✓		✓		✓		✓		✓	



## IPTV Gateways

The AvediaStream g4215 gateway streams live TV and Radio (news, sports, entertainment, educational etc.) channels over your existing network. It descrambles and distributes encrypted and free to air TV content from DVB-S2 or DVB-S terrestrial sources to an IP network.

### AvediaStream g4215



BC77136

### Features

- Easy Setup
- Hot swap module allows quick and non intrusive upgrade to existing installations
- Streams both SD and HD Channels simultaneously
- One DVB-S2 tuner and one DVB-CI CAM slot per blade for scrambled and free to air TV or radio channels
- Uses professional 3rd party CAM for multiple channel decrypting
- Tuner supports either DVB-S2 or DVB-S  
Advanced PID filtering for fine-grained control over audio, subtitles and other channel metadata
- Embedded system for high reliability and low power consumption

### Specifications

#### Streaming

- Up to 80Mbps output per blade or stream
- Single/multiple program MPEG-2 transport streams (ISO/IEC 13818-1)
- Channel customisation using advanced filtering
- Unlimited number of PIDs filtered
- PMT and PAT regenerated to reflect filtered program contents
- RTP
- UDP
- IP multicast
- IP unicast
- IGMP v3
- Channel announcement using SAP/SDP

#### CAM Modules

- DVB-CI interface accepts commercial and professional 3rd party CAMs
- Supports descrambling of multiple channels
- Supports Mediaguard, Viaccess, Irdeto, Conax, Cryptoworks decrypting and more

#### RF Input

- Input Frequency Range: 950-2150 MHz
- Input Level: -69 to -25 dBm
- Signal Modulation / Coding:
  - DVB-S
    - Modulation: QPSK
    - Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8
    - FEC: Reed Solomon & Viterbi
  - DVB-S2
    - Modulation: QPSK, 8PSK
    - Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8, 9/10
    - FEC: LDPC & BCH

- Supported Standards: DVB-S2 & DVB-S

#### Power

- DC 24V: 12W Typical, 15W Maximum (Not including LNB or CAM)

#### Dimensions

- L: 275mm x W: 130mm x H: 40mm
- Weight: 0.5kgs

## IPTV Encoders

The AvediaStream e2110 encoder streams pre-recorded and live TV and Radio (news, sports, entertainment, educational) channels over your existing network. It encodes and distributes content from sources such as DVD Players, set top boxes and digital cameras to an IP network.

### AvediaStream e2110



BC77792

### Features

- Easy Setup
- Hot swap module allows quick and non intrusive upgrade to existing installations
- Video input options: Composite, S-Video and RGBS
- Audio Input Options: Unbalanced Stereo
- SD MPEG-2 or MPEG-4 video encoding from devices such as DVD players, set-top boxes and digital cameras
- IR out for remote control of source device
- Embedded system for high reliability and low power consumption

### More information on Encoders

	e2110	e2220	e2522	e3522	e2532	e3532	e2250	e2552	e3552	e3535	e3555	
Encoding	Full HD**					✓			✓	✓	✓	
	HD Ready*			✓		✓			✓	✓	✓	
	SD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	H.264			✓	✓	✓		✓	✓	✓	✓	
	MPEG 2	✓	✓				✓					
	MPEG 4		✓									
	Down Scaler			✓	✓	✓	✓		✓	✓	✓	
	Up Scaler									✓	✓	
	Frame Rate Conversion										✓	✓
	Video Inputs	Composite	✓	✓	✓	✓						
S-Video		✓										
SD Component			✓	✓	✓							
HD Component				✓	✓							
RGBS		✓										
RGBHV						✓	✓			✓		
HD AV						✓	✓			✓		
SD SDI								✓	✓	✓	✓	
HD SDI									✓	✓	✓	
3G SDI									✓		✓	
Audio Inputs	Unbalanced Stereo Audio	✓	✓	✓	✓	✓				✓		
	Balanced Stereo Audio		✓	✓	✓							
	PCM Digital Audio		✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AC3 Pass Through			✓	✓	✓		✓	✓			
	IR Out	✓	✓	✓	✓	✓				✓		

\* Supports up to 1080i resolutions

\*\* Supports up to 1080p resolutions

### Specifications

#### Interfaces

- Video Input: (Single Channel)  
Composite (RCA), S-Video (4-pin mini-din) or RGBS (RCA). 1V p-p 75Ω. PAL, SECAM, NTSC auto-switching
- Audio Input: (Stereo)  
Unbalanced Line Level stereo (RCA). 2V p-p 75Ω.
- IR out (3.5mm jack socket)  
802.3 10/100BaseT Ethernet (RJ-45 chassis socket)
- Serial RS232 Port for local administration (RJ-45 chassis socket)

#### Streaming

- Up to 80Mbps output per blade
- Single program MPEG-2 transport streams (ISO/IEC13818-1)
- RTP
- UDP
- IP multicast
- Multi IP unicast (up to 10 simultaneous locations)
- IGMP v2
- Channel announcement using SAP/SDP
- Video or audio only options

#### MPEG-2 Encoding

- Main Profile @ Main Level
- QCIF, QVGA, CIF, SIF, ½ D1, VGA and D1 video resolution
- 128Kbps – 15Mbps
- Constant or variable bit rate

#### Network

- Linux IPv4 stack
- DHCP or Static IP addressing
- IEEE 802.3u 10/100Mbps MDIX Ethernet

#### Dimensions

- L: 275mm x W: 130mm x H: 40mm
- Weight: 0.5kgs

\*Please contact Exterity for information on HDMI features supported.

## IPTV Receivers

The AvediaPlayer r9200 connects an HD TV to your existing IP network to receive digital TV channels and other video sources. It features a single Ethernet port and an HDMI® output in a compact form factor with the lowest power consumption of all Exterity's HD receivers.

### AvediaPlayer r9200



BC77789

### Features

- Receives and decodes IPTV streams
- Easy setup
- Supports various video resolution formats
- Steel enclosure makes this receiver solid and robust
- Built-in user interface or 3rd party middleware
- Power over Ethernet (PoE) simplifies installation and saves on the cost of cabling and power points.
- Receiver Development Kit (RDK) is available for customisations and tailored applications

### Specifications

#### AV Output\*

- Video: HDMI 720p, 1080i & 1080p @ 50Hz, 59.94Hz or 60Hz
- Audio: HDMI (8 channel PCM or Bitstream), TOS (2 channel PCM or Bitstream)
- HDCP Support

#### Video Decoding

- MPEG-4 part 10 H.264 (ISO/IEC 14496-10)
- MPEG 4 part 2 (ISO/IEC 14496-2)
- MPEG 2 (ISO/IEC 13818-2)
- Resolutions:  
up to SD, 720p & 1080i @ 50Hz, 59.94Hz or 60Hz  
1080p @ 24Hz

#### Streaming

- MPEG-2 Transport Stream (ISO/IEC 13818-1)
- RTP
- UDP
- IP multicast
- IP unicast
- IGMPv2/v3
- Video On-Demand: RTSP, HTTP

#### Infra-red/Control Options

- Built in IR receiver
- 3.5mm jack for IR extender or tethered remote control
- IR Keyboard and 3rd party remote controls supported
- TV control via Serial RS232 Port
- External Reset Button

#### Power

- DC Jack (24V): 6W Typical, 9W Maximum
- POE IEEE 802.3af PD (48V): 6W Typical, 9W Maximum

#### Physical Dimensions

- W:140mm x D:95mm x H:35mm
- Weight: 0.4 kgs

## IPTV Receivers

The AvediaPlayer r9210 is a versatile stand-alone receiver for connecting any TV or AV display device to your IP Network. In addition to the standard HDMI® output it offers HD component, SD composite, SD S-Video, SD RGBS and analogue stereo audio outputs.

### AvediaPlayer r9210



BC77139

### Features

- Receives and decodes IPTV streams
- Easy setup
- Analogue Video and Audio Outputs
- Supports various video resolution formats
- Steel enclosure makes this receiver solid and robust
- Built-in user interface or 3rd party middleware
- Power over Ethernet (PoE) simplifies installation and saves on the cost of cabling and power points.
- Receiver Development Kit (RDK) is available for customisations and tailored applications

### Specifications

#### AV Output\*

- HD Video: HDMI, Component; 720p, 1080i & 1080p @ 50Hz, 59.94Hz or 60Hz
- SD Video: Composite (PAL), S-Video (PAL), RGBS (50Hz)
- Audio: HDMI (8 channel or Bitstream), Analogue unbalanced stereo,
- TOS (2 channel PCM or Bitstream)
- HDCP support

#### Video Decoding

- H.264 (MPEG-4 part 10-ISO/IEC 14496-2)
- MPEG 4 part 2 (ISO/IEC 14496-2)
- MPEG 2 (ISO/IEC 13818-2)
- Resolutions:
  - up to SD, 720p & 1080i @ 50Hz, 59.94Hz or 60Hz
  - 1080p @ 24Hz

#### Streaming

- MPEG-2 Transport Stream (ISO/IEC 13818-1)
- RTP
- UDP
- IP multicast
- IP unicast
- IGMPv2/v3
- Video On-Demand: RTSP, HTTP

#### Power

- DC Jack (24V): 7W Typical, 11W Maximum
- POE IEEE 802.3af PD (48V): 7W Typical, 11W Maximum

#### Physical Dimensions

- W: 222mm x D: 95mm x H: 43mm
- Weight: 0.6 kgs

\*Please contact Exterity for information on HDMI features supported.

## IPTV Receivers

The AvediaPlayer r9220 combines the delivery of HD video with three additional Ethernet ports that enable organisations to provide additional services, such as voice and data via one device for lower capital and operating costs.

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### AvediaPlayer r9220



BC80273

### Features

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- Receives and decodes IPTV streams
- Easy setup
- Four port Ethernet Switch for TriplePlay requirements
- Supports various video resolution formats
- Steel enclosure makes this receiver solid and robust
- Built-in user interface or 3rd party middleware
- Power over Ethernet (PoE) simplifies installation and saves on the cost of cabling and power points.
- Receiver Development Kit (RDK) is available for customisations and tailored applications

### Specifications

---

#### AV Output\*

- Video: HDMI 720p, 1080i & 1080p @ 50Hz, 59.94Hz or 60Hz
- Audio: HDMI (8 channel PCM or Bitstream), TOS (2 channel PCM or Bitstream)
- HDCP Support

#### Video Decoding

- H.264 (MPEG-4 part 10-ISO/IEC 14496-2)
- MPEG 4 part 2 (ISO/IEC 14496-2)
- MPEG 2 (ISO/IEC 13818-2)
- Resolutions:
  - up to SD, 720p & 1080i @ 50Hz, 59.94Hz or 60Hz
  - 1080p @ 24Hz

#### Streaming

- MPEG-2 Transport Stream (ISO/IEC 13818-1)
- RTP
- UDP
- IP multicast
- IP unicast
- IGMPv2/v3
- Video On-Demand: RTSP, HTTP

#### Power

- DC Jack (24V): 7W Typical, 9W Maximum
- POE IEEE 802.3af PD (48V): 7W Typical, 9W Maximum

#### Physical Dimensions

- W: 185mm x D: 95mm x H: 37mm
- Weight: 0.5 kgs

*\*Please contact Exterity for information on HDMI features supported.*



# Optical Fibre

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## Optical Fibre 1550nm Optical Transmitters



The 1550nm Direct Modulation Optical Transmitter uses a high linearity, low chirp DFB laser with built-in pre-distortion compensation and closed loop AGC, APC, ATC control which improves the system index. It can be used in full channel signal FTTx ( $\leq 10\text{km}$ ), and can also be used in DWDM narrow band multiplexing as well as IP or in Foxtel / Astar QPSK-QAM networks.

Available models:

- BC76005
- BC76195
- BC79211
- BC79293
- BC80493

### Features

- Low Chirp, high linearity DFB laser with chirp compensation
- Fully automated laser modulation index control, AGC & MGC
- Intuitive modulator status display
- Built-in dual power supply, with automatic redundancy switching
- Automatic temperature control, ensures laser's long working life

### Specifications

Product Code	BC76005		
Model	1550nm Direct Modulation Optical Transmitter		
Laser wavelength	(nm)	1550±10	ITU wavelength
Total output power	(dBm)	10	4,6,8
Output per port	(dBm)	3	-
Return loss	(dB)	≥55	FC
Optical fiber connector	-	SC/APC	Optional FC
Work bandwidth	(MHz)	45-862	-
Input level	(dBμV)	78-88	AGC, MGC
Flatness	(dB)	≤±0.75	45~862MHz
Return loss	(dB)	>16	-
CNR	(dB)	≥50	-1dBm receive
Network interface port	-	RJ45, RS232	Support I.E. & SNMP



## Optical Fibre FTTH Optical Receivers



The FTTH Optical Receiver series of products provide a low cost, high performance solution for RFTV in an FTTx network. The Optical Receivers convert a 1310/1490/1550nm optical input to a 47-862MHz coaxial output for connection to RFTV equipment. The Hills FTTH Receiver features high sensitivity optical receivers which results in high CNR levels even with a low input levels.

Available models:

- BC76007
- BC78968
- BC79292

### Features

- Very low noise (3.8% modulation, -10dBm receive, CNR $\geq$ 45dB)
- Optical receive power in the range of +3dBm to -12dBm
- Metal casing protects optical receiver & High RF output supports multiple end-users
- Low power consumption, high cost performance & Main applications: FTTH, FTTP, FTTO
- Input optical power status indicator: ( $\leq$ 13dBm) - LED off, (+3dBm~-12dBm) - Green, ( $\geq$ +3dBm) - Red

### Specifications

Product Code	BC76007		
Model	FTTH Optical Receiver		
Operational wavelength	(nm)	1260~1600	1550nm $\pm$ 10nm
Receiving power	(dBm)	+3~-12	
Channel isolation	(dB)	$\geq$ 40	1550 & 1490nm
Optical return loss	dB	$\geq$ 55	
Optical fibre connector	-	SC/APC	FC/APC
Operational bandwidth	(MHz)	47~862	
Output level	(dB $\mu$ V)	82	Pin: -2dBm
Output level adjust	(dB)	0~18	MGC
Return loss	(dB)	$\geq$ 12	47~862MHz
OMI	(%)	3.8	
CNR1	(dB)	56.6	Pin: -2dBm
Power supply	(V)	DC+12V, 2.5mm socket	$\pm$ 1.0V
Power consumption	(W)	$\leq$ 2	+12VC, 100mA
Size	mm	59 x 98 x 23	(W) x (D) x (H)

## Optical Fibre High Power Single Mode EDFA



The High Power Single Mode EDFA is characterised with low noise & high linearity. It offers a flexible, low-cost solution for CATV large area coverage of metropolises and medium-sized cities. The EDFA is equipped with complete APC, AGC, ATC control, excellent design for heat-dispersion, which guarantees long lifetime and stable operation of the PUMP laser. RS232 and RJ45 ports on the front panel offer serial communication and an SNMP network interface.

Available model:

-BC77176

### Features

- Main applications: CATV & FTTP
- Low noise, high performance to price ratio
- Total output power: +20dBm, Completed RS232, SNMP
- High efficiency installation, easy operation & flexible

### Specifications

Product	BC77176			
Model	High Power Single Mode EDFA			
Wavelength	(nm)	1540	-	1560
Input power	(dBm)	0	3	-
Total output power	(dBm)	20	-	-
Number of output port		8	-	32
Noise figure	(dB)	4.5	-	6.5
Optical connectors	-	SC/APC,LC/APC		
Serial interface	-	RS232		
SNMP network management interface	-	RJ45		
Size - (W) x(D) x (H)	mm	482 x 368 x 89 (2RU)		

## Optical Fibre Splitters & Accessories

### Splitters



**BC76279**  
Optical Splitter 4x2 way 1 RU

**BC79502**  
Optical Splitter 1x4 way 1 RU

**BC78997**  
Optical Splitter 1x8 way 1 RU

**BC79328**  
Optical Splitter 1x16 way 1 RU

**BC81265**  
Outdoor 8 way optical splitter

### Accessories



**BC78998**  
Patchcord SC/APC-1m

**BC81390**  
Patchcord SC/APC-10m



**BC76101**  
M-F Optical Attenuator  
3dB-SC

**BC79327**  
M-F Optical Attenuator  
6dB-SC



**BC79380**  
Optical meter  
-50 to +26dBm









# Accessories

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# Accessories

## Accessories Non-Display Packs








	Product Name	Units	Part Number
	RG6Q F Male to Pal Male Flylead 1.5m	1	BC80513
	RG6 F Male to F Male Flylead White 2.0m	1	BC71266
	Male to Male Flylead 1.5m Male to Female Flylead White 1.5m Male to Male Flylead 2.5m	1 1 1	BC1856 BC1854 BC1852
	1RCA Male to 1RCA Male 2.0m 1RCA Male to 1RCA Male Digital Audio Lead 2.0m 1RCA Male to 2RCA Female 2.0m	1 1 1	BC71235 BC89509 BC71236
	2RCA Male to 2RCA Male 2.0m	1	BC71237
	3RCA Male to 3RCA Male 2.0m (YRW-Composite) 3RCA Male to 3RCA Male 1.5m (RGB-Component) 3RCA Male to 3RCA Male 2.0m (RGB-Component) 3RCA Male to 3RCA Male 3.0m (RGB-Component)	1 1 1 1	BC89503A BC74655 BC89508A BC74656
	5RCA Male to 5RCA Male 1.5m (RGB + L&R Audio) 5RCA Male to 5RCA Male 3.0m (RGB + L&R Audio)	1 1	BC74624 BC74652
	3RCA Male to 3RCA Male + 3RCA Female 1.5m	1	BC88007

## Accessories Non-Display Packs







	Product Name	Units	Part Number
	Scart to 3RCA Male 1.5m Scart to 3RCA Male 3.0m	1 1	BC88008 BC71738
	Scart to 5RCA Male 1.5m (RGB + L&R Audio)	1	BC89500
	Scart to 6RCA Male 1.5m Scart to 6RCA Male 3.0m	1	BC15663 BC71737
	Scart to Scart 1.5m	1	BC86852
	S-Video to S-Video Lead 2.0m	1	BC88021
	Toslink / Toslink Digital Audio Lead 2.0m	1	BC89505
	HDMI to HDMI 1.3b - 1.5m HDMI to HDMI 1.3b - 2.0m HDMI to HDMI 1.3b - 3.0m	1 1 1	BC74643A BC74571 BC74644A
	HDMI to DVI - 1.5m HDMI to DVI - 3.0m	1 1	BC74641 BC74642

# Accessories

## Accessories Non-Display Packs









	Product Name	Units	Part Number
	Wall Outlet - F In Pal Out	1	BC72285
	Dual Wall Outlet - F to F & F In Pal Out	1	BC86814
	Wall Plate 2 HRL F type Barrel	1	BC74727
	Wall Plate 1 HRL F type Barrel	1	BC86818HR
	Wall Plate 1 HRL F type Barrel with Plaster Bracket	1	BC86819HR
	Wall Plate Brackets Only - 154	1	BC86816
	Mounting Block Slim - 449AS	1	BC73604
	Mounting Block Plaster - 449A	1	BC1624
	PSA 59/6 Adjustable Stripper	1	BC72487
	RG11 Stripper	1	BC15171
	RG6 Flaring & Insertion Tool	1	BC75173
	500 (1/2") Jacket Stripper	1	BC15647
	Hills RG59/6 F Type only	1	BC71509
	ICM RG59/6 F Type	1	BC89200A
	ICM F Only RG11 F Type	1	BC86864

## Accessories Non-Display Packs

	Product Name	Units	Part Number
	ICM Double Bubble RG59 F RCA & BNC	1	BC74836
	ICM F, RCA & BNC RG59/6	1	BC89202
	Tip Holder IEC Tip F Tip	1 1 1	BC72257 BC71514 BC73398A
	Double Bubble Tech Express Kit Kit contains: 1x Compression Tool 1x Cable Stripper	1	BC78191
	Hex Crimp Kit RG59 / 6 / 11 Kit contains: 1x Hex Crimper (Hex size: 0.360, 0.475 & 0.096) 1x Cable Stripper 1x Cutter 20x RG6 F Type Connectors	1	BC88181
	Antenna Balun F-Type Barrel	1	BC3607









# Accessories

## Accessories Display Packs

	Product Name	Units	Part Number
	RG59 F type Crimp Connectors	10	BC2090DP
	RG59 F type Twist On Connector	6	BC88095DP
	RG6 F type Crimp Connector	10	BC2092DP
	RG6 F type Twist Connector	6	BC14302DP
	Coax Adaptor F type Female / Pal Male	5	BC3718DP
	Coax Adaptor F type Female / Pal Female	5	BC15298DP
	Coax Adaptor F type Male / Pal Female	5	BC5728DP
	Coaxial Pal Joiner Female / Female	2	BC3618DP







## Accessories Display Packs









	Product Name	Units	Part Number
	Coaxial Pal Plug	2	BC3614DP
	Coaxial Pal Socket	2	BC3616DP
	Hills Double Bubble RG6	50	BC80490DP
	F Barrel 26mm High Return Loss	2	BC71150DP
	Double Bubble PAL Connector	10	BC72483DP
	Double Bubble BNC Connector	10	BC72225DP
	Right Angle F F to PAL M	2	BC87045DP
	Right Angle F F to F M	2	BC3720DP

# Accessories

## Accessories Display Packs





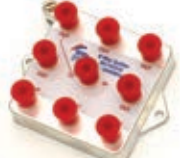



	Product Name	Units	Part Number
	4 way Splitter Saddle type	1	BC3622DP
	2 way Splitter Saddle type	1	BC3620DP
	2 Way Splitter TV Outlet type	1	BC3634DP
	Skirting Outlet F type	1	BC86921DP
	Skirting Board Outlet 1 HRL F type Barrel Skirting Board Outlet - F In Pal Out	1	BC86921DP
	Wall Outlet F type	1	BC86819DP
	Single Wall Outlet Saddle type Single Wall Outlet Mains Isolated	1 1	BC86811DP FC607108

## Accessories Display Packs

	Product Name	Units	Part Number
	Flylead 1.5m Male / Female	1	BC3608DP
	Flylead 4 m Male / Male	1	BC3626DP
	Flylead 1.5m Male / Male	1	BC3610DP
	Flylead RG6 1.5m F type / Pal male	1	BC86837DP
	3RCA - 3RCA lead 2 metres	1	BC15249DP
	RG6Q White F/M - F/M 2.0m	1	BC71266ADP BC71266A
	2 way Splitter Plug type	1	BC3658DP
	Antenna VHF / UHF Indoor	1	BC3640DP

# Accessories

## Accessories Display Packs

	Product Name	Units	Part Number
	2 way Splitter F type	1	BC15173DP
	3 way Splitter F type	1	BC15167DP
	4 way Splitter F type	1	BC15470DP
	6 way Splitter F type	1	BC15252DP
	8 way Splitter F type	1	BC15253DP
	Adjustable RG59/6 Coaxial Stripper	1	BC71588DP
	Coaxial Stripper RG59/6	1	BC15172DP
	Hills RG11 F Type	1	BC71442DP

## Accessories Display Packs



Product Name	Units	Part Number
Double Bubble Compression Tool	1	BC72241DP
Hex Crimper RG59 / 6 / 11 (Hex size: 0.360, 0.475 & 0.096)	1	BC87007DP



# CableReady Ducting & Racking

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# CableReady Ducting & Racking

## CableReady Ducting & Racking

Now you see it – Now you don't

CableReady protective molding system protects cables from vandalism and the elements on commercial and residential buildings. Our patented system exceeds industry standards, and is also cost-effective.

The durable molding is custom painted, 26 gauge, hot dipped galvalume® steel. CableReady is also backed by an exclusive 15-year warranty for added protection. The CableReady molding system is easy to install. An 8 foot section requires only four anchors, two clips and just a few minutes to install.

All fittings are designed to fit snugly on the molding making access to the protected cables extremely difficult without the patented CableReady entry key. And re-entry with our special key takes only 20 seconds per 8 foot length.

Molding is available in four colours, two sizes and with transitions between sizes. CableReady molding has a greater cable capacity (40 RG6 cable drops in the two inch molding) and costs less per cable.

Now you see it – durable, cost effective protection

Now you don't – choice of four colours (Brown, Ivory, Redwood and White) to blend into background

### Ducting Cr Clips 1"



BC15004

### Ducting Cr Coupling 1"



**Brown** - BC15008

**Ivory** - BC15009

**Redwood** - BC15010

**White** - BC15011

### Ducting Cr Security 1" Back Plate (8Ft)



BC15001

### Ducting Cr Coupling 2"



**Brown** - BC15016

**Ivory** - BC15017

**Redwood** - BC15018

**White** - BC15019

### Ducting Cr Clips 2"



BC15006

### Ducting Cr Expansion 1-3"



**Brown** - BC15028

**Ivory** - BC15029

**Redwood** - BC15030

**White** - BC15031

### Ducting Cr Security 2" Back Plate (8Ft)



BC15002

### Ducting Cr Inside Cnr 1"



**Brown** - BC15032

**Ivory** - BC15033

**Redwood** - BC15034

**White** - BC15035



# CableReady Ducting & Racking

## CableReady Ducting & Racking

---

### Ducting Cr Inside Cnr 2"



**Brown** - BC15040

**Ivory** - BC15041

**Redwood** - BC15042

**White** - BC15043

---

### Ducting Cr Off Set Adaptor 1"



**Ivory** - BC15053

**Redwood** - BC15054

**White** - BC15055

---

### Ducting Cr Outside Cnr 1"



**Brown** - BC15064

**Ivory** - BC15065

**Redwood** - BC15066

**White** - BC15067

---

### Ducting Cr Outside Cnr 2"



**Brown** - BC15072

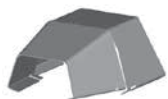
**Ivory** - BC15073

**Redwood** - BC15074

**White** - BC15075

---

### Ducting Cr Reducer 1 x 3/4"



**Brown** - BC15080

**Ivory** - BC15081

**Redwood** - BC15082

**White** - BC15083

---

### Ducting Cr Reducer 2 to 1"



**Brown** - BC15084

**Ivory** - BC15085

**Redwood** - BC15086

**White** - BC15087

---

### Ducting Cr Reducing Tee 2 x 1"



**Brown** - BC15088

**Ivory** - BC15089

**Redwood** - BC15090

**White** - BC15091

---

### Ducting Cr Right Angle 1"



**Brown** - BC15092

**Ivory** - BC15093

**Redwood** - BC15094

**White** - BC15095

---

### Ducting Cr Right Angle 2"



**Brown** - BC15100

**Ivory** - BC15101

**Redwood** - BC15102

**White** - BC15103

---

### Ducting Cr Tee 1"



**Brown** - BC15124

**Ivory** - BC15125

**Redwood** - BC15126

**White** - BC15127

---

### Ducting Cr Crossing Tee 1"



**Ivory** - BC71769

---

### Ducting Cr Crossing Tee 2"



**Brown** - BC15132

**Ivory** - BC15133

**Redwood** - BC15134

**White** - BC15135

# CableReady Ducting & Racking

## CableReady Straight Runs & Dcuting Tools

### Ducting Cr Underground Boot 6"



Brown - BC15140

Ivory - BC15141

Redwood - BC15142

White - BC15143

### Tool CableReady 1" Entry Key



BC15238

### Ducting Cr End Cap 1"



Ivory - BC72492

### Tool Metal Ducting Shears Straight Cut



BC15239

### Ducting Cr Straight Run 1" (8Ft)



Brown - BC15108

Ivory - BC15109

Redwood - BC15110

White - BC15111

### Tool Hand Cutters-Supersnips (Nibbler)



BC15240

### Ducting Cr Straight Run 2" (8Ft)



Brown - BC15116

Ivory - BC15117

Redwood - BC15118

White - BC15119

### Tool CableReady Repl Blade



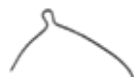
BC15241

### Tool CableReady Anchor Driver



BC15236

### Tool CableReady Repl Spring



BC15242

### Tool CableReady 1/2" Entry Key



BC15237

## AV & Home Theatre

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## HD Intelligence™ HDMI Extender

### HDMI Extender set over two Cat 6



BC75556

#### Features

- Compact HDMI Extender set [TX] & [RX]
- Transmission distance 25 meters 1080p at 2.25gbits
- Plug & play with auto-feedback, equalization and gain
- Two cat 6 cable with IEEE-568b terminations
- HDCP compliant

### HDMI 3D Extender set over one Cat 6 with dual IR



BC80509

#### Features

- Extend HDMI to 40m at 1080p 24-bit & 50m at 1080i or 720p 24-bit
- Minimize the cable skew by adjustable 8-level equalization control
- Uncompressed 7.1ch digital HDMI, DTS-HD and Dolby True HD high bit rate audio
- Supports wide band IR signal from 20 to 60 KHz Bi-directional IR path
- Allows cascading

### HDMI 3D Extender set over one Cat 6



BC80492

#### Features

- HDMI Extender set over single Cat 6
- Video/Audio transmission distance up to 20m in 1080p & 25m 1080i
- Supports the most advanced 3D video formats
- HDMI 1.3c compliant [3D video]
- HDCP compliant
- Pure uncompressed 7.1ch digital audio over HDMI with UTP cable transmission
- RX allows direct plug-in to the HDMI display

### HDMI Australian wall plate Extender over one Cat 6



BC80494

#### Features

- Supports HDMI Deep Color & Full 3D
- Up to 40m from the HDMI source at Full HD 1080p
- Up to 50m from the HDMI source at HD 1080i or 720
- HDCP 1.1 compliant
- Minimizes cable skew by 8-level equalization control
- Pure unaltered uncompressed 7.1ch HDMI over Cat 6
- DTS-HD and Dolby TrueHD high bit rate audio support
- Wide band Bi-directional IR SAT cable TV friendly
- Australian style wall mounting design for easy installation

## Specifications

### Electrical

Model	BC75556	BC80492	BC80509	BC80494
Cat 6 Cables	2	1	1	1
Range @1080p/i	25/35	20/25	40/50	40/50
Inputs	HDMI	HDMI	HDMI	HDMI
Outputs	HDMI	HDMI	HDMI	HDMI
Wide Band IR	NO	NO	YES	YES
3D Support	NO	YES	YES	YES

## HD Intelligence™ HDMI Extender

### HDMI Extender set over one Cat 6



BC79699

#### Features

- HDMI Extender set [TX] & [RX] plug and play
- Transmission distance 100 meters 1080p at 60hz 48 bits
- One Cat 6 cable with IEEE-568b terminations for:
  - HDMI V1.4 supported 3D & 4K X 2K
  - Bi directional Infrared control
  - RS232 Port for firmware update or RS232
  - Ethernet 100 BaseTX pass through
- HDCP compliant
- ESD protection

### HDMI 1.3 Extender set over Single Coaxial Cable



BC80496

#### Features

- HDMI Extender set TX/RX over single coax up to 60m at 1080p, 70m at 1080i
- Wide band IR
- HDMI 1.3 & HDCP compliant
- Pure uncompressed 7.1 audio
- Can be used in cascade
- Can be split 4 or 8 times to HDMI TVs
- Supplied with 2 power supplies & BNC to F adaptors x 2

### HDMI over Single Coaxial Extender (TX)



BC81275

#### Features

- HDMI 1.3a compliant
- HDCP compliant
- Single coaxial cable
- Cascadable from output 1 & 2 [up to 4-5 times, depending on cable type & cable lengths]
- 7.1-channel audio supported

### HDMI over Single Coaxial Extender (RX)



BC81276

#### Features

- Extends the transmission range up to 60m from the HDMI sources under Full HD resolution (1080p60 24-bit color depth) through Belden 1694A coaxial cable.
- Video resolutions support 480i, 576i, 720p, 1080i, and 1080p
- Wide Band IR
- Wall mounting housing design for easy and robust installation

## Specifications

#### Electrical

Model	BC79699	BC81275 (TX)	BC80496	BC81276 (RX)
Cat 6 Cables	1	COAX RG59/6	COAX RG59/6	COAX RG59/6
Range @1080p/i	100	60	60	60
Inputs	HDMI	HDMI	HDMI	HDMI
Outputs	HDMI	HDMI	HDMI	HDMI
Wide Band IR	NO	YES	YES	YES
3D Support	YES	NO	NO	NO

# AV & Home Theatre

## HD Intelligence™ HDMI Splitter

### HDMI 3D compliant 2 way Splitter Amplifier



BC80497

### HDMI Cascading 7 Way Distribution Amplifier



BC80502

#### Features

- HDMI 1.3c 3D and DVI 1.0 compliant
- HDCP 1.1 compliant
- Wide frequency range: 25MHz~225MHz
- Video bandwidth: 6.75Gbps
- Resolution up to 1080p or WUXGA (1920x1200)
- Automatic EDID learning
- Supports xvYCC, x.v.Color & Deep Color
- USB firmware update for expanding compatibility
- Supports Dolby Digital, DTS-HD and Dolby TrueHD audio

#### Features

- HDMI 1.3c 3D
- HDCP compliant
- HDMI Distribution to 7 displays and one Cat 6 to optional receiver or cascade to another BC80502
- HDMI x 1+ Cat 6 x 1 Input switch function
- Input & Outputs up to 15m using HDMI cable
- Minimises the cable skew by adjustable 8-level equalization control
- Regenerates HDMI signal
- Supports default HDMI EDID and has the ability to learn the EDID of displays
- Pure unaltered uncompressed 7.1ch digital HDMI over LAN cable transmission
- Allows cascading
- Perfectly integrated with other HDMI over Cat 6 series products
- 1U rack mountable with interlocking power adapter

### Wide Band IR Extender over one Cat 6



BC80505

#### Features

- Easy to install as a stand alone IR, or as IR control for a HDMI Distribution system
- Supports full bandwidth of IR signal, 20KHz ~ 60KHz
- Built-in IR Splitter on TX and RX units
- Bi-directional IR path
- Super long extension distance
- Single power supply at either TX or RX units
- Wall mount housing design for easy and robust installation

## Specifications

#### Electrical

Model	BC80497	BC80502	BC80505
Cat 6 Cables	NA	NA	1
Range @1080p/i	NA	NA	100
Inputs	HDMI	HDMI + CAT 6	3.5
Outputs	HDMI x 2	HDMI x 7 + CAT 6	3.5 x 2 CAT 6
Wide Band IR	NO	NA	YES
3D Support	YES	YES	NA

## HD Intelligence™ HDMI Transmitter

### HDMI Distribution Amplifier & Transmitter



BC80498

#### Features

- HDMI 1.3 3D & DVI 1.0 compliant
- HDCP 1.1 compliant
- Extends up to 40m (1080p) Cat 6 & up to 50m (720p / 1080i) solid copper chore Cat 6 cable
- Regenerates the HDMI signal
- Supports uncompressed 7.1ch digital audio Dolby / DTS pass through with 2 ch 3.5 mm output
- Supports default HDMI EDID and has the ability to learn the EDID of displays

### HDMI & 4 Way Distribution Amplifier & Transmitter



BC80500

#### Features

- High Speed HDMI-Deep Color & Full 3D support with HDCP
- Extends up to 40m Cat 6 solid copper UTP cable under Full HD (1080p) & 50m HD (720p / 1080i)
- Extends 15m input HDMI cable
- Regenerates the HDMI signal
- HDMI local output for monitoring
- Supports default HDMI EDID and has the ability to learn the EDID of displays

## Specifications

### Electrical

Model	BC80498	BC80500	BC80501
Cat 6 Cables	1	1	1
Range @1080p/i	40/50M	40/50M	40/50M
Inputs	HDMI	HDMI	HDMI
Outputs	CAT 6 +Local HDMI + 2CH Audio	4 x CAT 6 + Local HDMI	8 x CAT 6 + Local HDMI
Wide Band IR	NO (Add BC80505)	NO (Add BC80505)	NO (Add BC80505)
3D Support	YES	YES	YES

### HDMI 8 way Distribution Amplifier & Transmitter



BC80501

#### Features

- HDMI 1.3c High Speed HDMI-Deep Colour, Full 3D
- HDCP compliant, regenerates the HDMI signal
- Extender/ Transmitter [TX] Splitter Amplifier to 8 identical outputs over one Cat 6 cables
- Extends up to 40m output solid copper chore Cat 6 UTP cable under Full HD (1080p)
- Extends up to 50m output solid copper chore Cat 6 UTP cable under HD (720p / 1080i)
- HDMI local output for monitoring, extends up to 15m HDMI cable
- Supports default HDMI EDID and has the ability to learn the EDID of displays
- Pure unaltered uncompressed 7.1ch digital HDMI over Cat 6 cable transmission
- Allows cascading
- Perfectly integrated with other HDMI over Cat 6 series products
- 1U rack mountable
- Optional [extra cost] end receivers BC80503 & BC80504

# AV & Home Theatre

## HD Intelligence™ HDMI Receiver

### HDMI Distribution Amplifier & Receiver

(Use with BC80498 Cascade up to 10 Times)



BC80499

### Features

- HDMI 1.3 3 D & DVI 1.0 compliant
- HDCP 1.1 compliant
- Extends up to 40m (1080p) solid copper chore Cat 6 & up to 50m (720p / 1080i) solid copper chore Cat 6 cable
- HDMI output cable to 15m
- Regenerates the HDMI signal
- Supports uncompressed 7.1ch digital audio Dolby / DTS pass through with 2 ch 3.5 mm output
- Supports default HDMI EDID and has the ability to learn the EDID of displays

### HDMI Cascading Distribution Amplifier



BC80502

### Features

- HDMI 1.3c 3D
- HDCP compliant
- HDMI Distribution to 7 displays and one solid copper chore Cat 6 to optional receiver or cascade to another BC80502
- HDMI x 1+ Cat 6 x 1 Input switch function
- Input & Outputs up to 15m using HDMI cable
- Minimises the cable skew by adjustable 8-level equalization control
- Regenerates HDMI signal

### Specifications

#### Electrical

Model	BC80499	BC80502	BC80503	BC80504
Cat 6 Cables	1	1	1	1
Range @ 1080p/i	40/50 M	40/50 M	20/25 M	40/50 M
Inputs	CAT 6	CAT 6	1 x CAT 6	1 x CAT 6
Outputs	CAT 6 + Local HDMI + 2CH Audio	CAT 6 + 7 x HDMI	1 x HDMI	1 x HDMI
Wide Band IR	NO (Add BC80505)	NO (Add BC80505)	NO (Add BC80505)	NO (Add BC80505)
3D Support	YES	YES	YES	YES

## HD Intelligence™ HDMI End Point Receiver

### HDMI Final Receiver over Single Cat 6



BC80503

### Features

- HDMI 1.3c compliant
- HDCP compliant
- Receives up to 20m on a single solid copper chore Cat 6 cable with Full HD (1080p)
- Receives up to 25m on a single solid copper chore Cat 6 cable with HD (720p / 1080i)
- Pure unaltered uncompressed 7.1 ch digital HDMI over Cat 6 cable transmission
- Perfectly integrated with other HDMI over Cat 6 series products

### HDMI Final Receiver over Single Cat 6



BC80504

### Features

- HDMI 1.3c compliant
- HDCP compliant
- Receives up to 40m on a single solid copper chore Cat 6 cable with Full HD (1080p)
- Receives up to 50m on a single solid copper chore Cat 6 cable with HD (720p / 1080i)
- Pure unaltered uncompressed 7.1 ch digital HDMI over Cat 6 cable transmission
- Allows cascading
- Perfectly integrated with other HDMI over Cat 6 series products



## HD Intelligence™ HDMI Matrix Switcher

### 4 x 4 HDMI Matrix Switcher, including receiver



BC80506



### Features

- HDMI Extender set [TX] & [RX] plug and play
- 4 HDMI inputs-4 HDMI output zones
- 1080p to 40M, 1080i to 50M by 2 x Cat 6
- Fast source switching response 2-5 sec
- Supplied receivers & powered by matrix, via 2 x Cat 6
- High Speed HDMI-Deep Colour
- V1.3C Full 3D support & HDCP
- Any zone can display any source
- Supports 7.1 ch digital & 2 channel audio
- Wide band IR for SAT cable TV & source control
- Selection by remote, front panel, RS232 & receivers



### Specifications

#### Electrical

Technical	BC80506 (TX)	BC80506 (RX)
Role of usage	True 4 x 4 Matrix Switcher Transmitter [TX]	Receiver [RX]
HDMI COMPLIANCE	High Speed HDMI-Deep Color & Full 3D support	
HDCP compliance	YES	
Video bandwidth	Single-link 225MHz [6.75Gbps]	
Video support	480i / 480p / 720p / 1080i / 1080p60 36-bit color	
Audio support	Surround sound (up to 7.1ch) or stereo digital audio	
HDMI over Cat 6	Full HD (1080p): 40m [solid copper chore Cat 6] HD (720p/1080i): 50m [solid copper chore Cat 6]	
HDMI equalization	N/A	8-level digital rotary control
Input TMDs signal	1.2 Volts [peak-to-peak]	
Input DDC signal	5 Volts [peak-to-peak, TTL]	
ESD protection	[1] Human body model ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±8kV	
PCB stack-up	4-layer board [impedance control differential 100Ω; single 50Ω]	
Input	4 x HDMI, 1 x RS-232	1 x RJ-45 TMDs, 1 x RJ-45 DDC, 1 x IR socket for IR receiver
Output	4 x RJ-45 TMDs, 4 x RJ-45 DDC 5 x IR socket for IR blaster	1 x HDMI
HDMI Input selection	Push-in button/IR remote control/RS-232 control	Push-in button/IR remote control
HDMI source control	Controllable via IR pass-through from IR receiver at RX to IR blaster at TX	
IR remote control	Electro-optical characteristics: τ = 25° / Carrier frequency: 20-60kHz	
HDMI connector	Type A [19-pin female]	
RJ-45 connector	WE/SS 8P8C with 2 LED indicators	
RS-232 connector	DE-9 [9-pin D-sub female]	
3.5mm connector	Earphone jack for IR blaster [IR Main] IR control on all source devices [IR1~IR4] IR control on individual source device	Earphone jack for IR receiver [IR] Receives IR commands from remote control
DIP switch [BC80506 only]	[SW1~SW4] 2-pin for EDID and audio setting modes	[SW Main] 4-pin operation mode & firmware update

# AV & Home Theatre

## HD Intelligence™ HDMI Matrix Switcher

4 x 8 HDMI Matrix Switcher, including receiver



BC80507



### Features

- 4 HDMI inputs - 8 HDMI output zones
- 1080p to 40M, 1080i to 50M by 2 x Cat 6
- Fast source switching response 2-5 sec
- Supplied receivers & powered by matrix, via 2 x Cat 6
- High Speed HDMI-Deep Colour
- V1.3C Full 3D support & HDCP
- Any zone can display any source
- Supports 7.1 ch digital & 2 channel audio
- Wide band IR for cable TV & source control
- Selection by remote, front panel, RS232 & receiver
- Zone & source pre-set



### Specifications

#### Electrical

Technical	BC80507 (TX)	BC80507 (RX)
Role of usage	4 x 8 true Matrix Transmitter [TX]	Receiver [RX]
HDMI compliance	HDMI Deep Color & full 3D	
HDCP compliance	YES	
Video bandwidth	Single-link 225MHz [6.75Gbps]	
Video support	480i / 480p / 720p / 1080i / 1080p60 36-bit color	
Audio support	Surround sound (up to 7.1ch) or stereo digital audio	
HDMI over Cat 6	HD (1080p): 40m [solid copper chore Cat 6] (720p/1080i): 50m [solid copper chore Cat 6]	
HDMI equalization	N/A	8-level digital rotary control
Input TMDS signal	1.2 Volts [peak-to-peak]	
Input DDC signal	5 Volts [peak-to-peak, TTL]	
ESD protection	[1] Human body model ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±8kV	
PCB stack-up	4-layer board [impedance control differential 100Ω; single 50Ω]	
Input	4 x HDMI 1 x RS-232	1 x RJ-45 TMDS, 1 x RJ-45 DDC, 1 x IR socket for IR receiver
Output	8 x RJ-45 [HDMI signal], 8 x RJ-45 [Channel control] 8 x IR socket for IR blaster	1 x HDMI
HDMI Input selection	Push-in button/IR remote control/RS-232 control	Push-in button/IR remote control
HDMI source control	Controllable via IR pass-through from IR receiver at RX to IR blaster at TX	
IR remote control	Electro-optical characteristics: τ = 25° / Carrier frequency: 20-60kHz	
HDMI connector	Type A [19-pin female]	
RJ-45 connector	WE/SS 8P8C with 2 LED indicators	
RS-232 connector	DE-9 [9-pin D-sub female]	
3.5mm connector	Earphone jack for IR blaster [IR Main] IR control on all source devices [IR1~IR4] IR control on individual source device	Earphone jack for IR receiver [IR] Receives IR commands from remote control
DIP switch [BC80506 only]	[SW1~SW4] 2-pin for EDID and audio setting modes	[SW Main] 4-pin operation mode & firmware update

## HD Intelligence™ HDMI Matrix Switcher

### 8 x 8 HDMI Matrix Switcher, including receivers



BC80508



### Features

- 8 HDMI inputs - 8 HDMI output zones
- 1080p to 40M, 1080i to 50M by 2 x cat 6
- Fast source switching response 2-5 sec
- Supplied receivers & powered by matrix, via 2 x cat 6
- High Speed HDMI-Deep Colour
- V1.3C Full 3D support & HDCP
- Any zone can display any source
- Supports 7.1 ch digital & 2 channel audio
- Wide band IR for cable TV & source control
- Selection by remote, front panel, RS232 & receiver



### Specifications

#### Electrical

Technical	BC80508 (TX)	BC80508 (RX)
Role of usage	True 8 x 8 Matrix Switcher Transmitter [TX]	Receiver [RX]
HDMI compliance	HDMI Deep Color & full 3D	
HDCP compliance	YES	
Video bandwidth	Single-link 225MHz [6.75Gbps]	
Video support	480i / 480p / 720p / 1080i / 1080p60	
Audio support	Surround sound (up to 7.1ch) or stereo digital audio	
HDMI over Cat 6	Full HD (1080p): 40m [solid copper chore Cat 6] HD (720p/1080i): 50m [solid copper chore Cat 6]	
HDMI equalization	N/A	8-level digital rotary control
Input TMDs signal	1.2 Volts [peak-to-peak]	
Input DDC signal	5 Volts [peak-to-peak, TTL]	
ESD protection	[1] Human body model ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±8kV	
PCB stack-up	4-layer board [impedance control differential 100Ω; single 50Ω]	
Input	8 x HDMI 1 x RS-232	1 x RJ-45 TMDs, 1 x RJ-45 DDC, 1 x IR socket for IR receiver
Output	8 x RJ-45 [HDMI signal], 8 x RJ-45 [Channel control] 8 x IR socket for IR blaster	1 x HDMI
HDMI Input selection	Push-in button/IR remote control/RS-232 control	Push-in button/IR remote control
HDMI source control	Controllable via IR pass-through from IR receiver at RX to IR blaster at TX	
IR remote control	Electro-optical characteristics: τ = 25° / Carrier frequency: 20-60kHz	
HDMI connector	Type A [19-pin female]	
RJ-45 connector	WE/SS 8P8C with 2 LED indicators	
RS-232 connector	DE-9 [9-pin D-sub female]	
3.5mm connector	Earphone jack for IR blaster [IR Main] IR control on all source devices [IR1~IR4] IR control on individual source device	Earphone jack for IR receiver [IR] Receives IR commands from remote control
DIP switch [BC80506 only]	[SW1~SW4] 2-pin for EDID and audio setting modes	[SW Main] 4-pin operation mode & firmware update

# AV & Home Theatre

## HD Intelligence™ Media Hub

HDMI Media Hub is an affordable HDMI distribution solution Simplified installation 2 area kits (KC4581)



BC81331



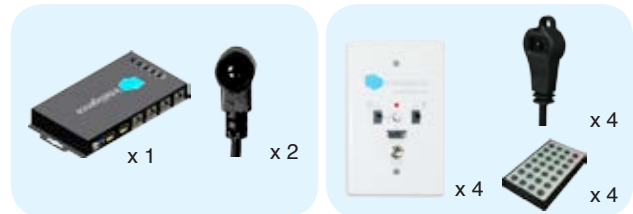
BC81331

BC81333 x 1

### Features

- Simple one box solution
- With one Cat 6 - AU wall plate receivers
- Available in 2 & 4 area kits
- 2 HDMI inputs with wideband IR source control & IR blasters
- 4 identical one Cat 6 outputs upto 35m 1080p
- Supplied in pairs with 2 receivers, 2 remotes & p/supplies
- HDMI deep colour, 3D & HDCP compliant
- Wide band IR for cable TV and other devices

Simplified installation 4 area kits (KC4582)



BC81331

BC81333 x 2

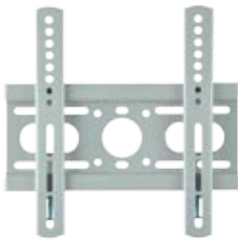
### Specifications

#### Electrical

Technical	BC81331 (TX)	BC81333 (RX)
Role of usage	2x4 Distribution Amplifier Transmitter [TX]	Receiver [long range RX]
HDMI compliance	HDMI Deep Color & full 3D	
HDCP compliance	YES	
Video bandwidth	Single-link 225MHz [6.75Gbps]	
Video support	480i / 480p / 720p / 1080i / 1080p60 24/30/36-bit color	
Audio support	Surround sound (up to 7.1ch) or stereo digital audio	
HDMI over Cat 6	Full HD (1080p): 35m [solid copper chore Cat 6]	HD (720p/1080i): 45m [solid copper chore Cat 6]
HDMI equalization	N/A	8-level digital rotary control
Input TMDS signal	1.2 Volts [peak-to-peak]	
Input DDC signal	5 Volts [peak-to-peak, TTL]	
ESD protection	[1] Human body model ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±8kV	
PCB stack-up	4-layer board [impedance control differential 100Ω; single 50Ω]	
Input	2 x HDMI	1 x RJ45 + 1 x 3.5mm
Output	4 x RJ45 + 2 x 3.5mm	1 x HDMI
IR remote control	Electro-optical characteristics: τ = 25° / Carrier frequency: 20-60kHz	
HDMI connector	Type A [19-pin female]	
RJ-45 connector	WE/SS 8P8C with 2 LED indicators	
RS-232 connector	DE-9 [9-pin D-sub female]	
3.5mm connector	IR blaster & IR receiver	
DIP switch [BC80506 only]	2-PIN	None
Housing	Metal enclosure	
Fixedness	Wall-mounting with screws	
Power supply	5V 4A DC	
Power consumption	10 Watts	1 Watts

## HAV Mounting Systems Slim Fixed Mount

The slim fixed mount range allow the TV to sit as close to the wall as possible.



14"-32"  
BC73525A



23"-42"  
BC78204



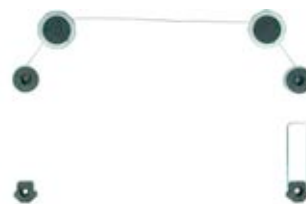
26"-55"  
BC80455



42"-65"  
BC78203



37"-65"  
BC73975A



32"-55"  
BC78443

### Specifications

Model	BC73525A	BC80455	BC73975A	BC78204	BC78203	BC78443
TV Size	14"-32"	26"-55"	37"-65"	23"-42"	42"-65"	32"-55"
Depth	25mm	27mm	27mm	14mm	14mm	19mm
Mount	NON VESA & VESA 200*200mm	NON VESA & VESA 600*400mm	NON VESA & VESA 800*500mm	NON VESA & VESA 400*300/400mm	NON VESA & VESA 800*500mm	NON VESA & VESA 600*400mm
Weight	35kg	45kg	60kg	25kg	45kg	50kg
Wall	Stud or masonry wall	Stud or masonry wall	Stud or masonry wall	Stud or masonry wall	Stud or masonry wall	Stud or masonry wall
Features	2 safety screw locks	2 safety screw locks	2 safety screw locks	Tilts up for cable access	Tilts up for cable access	Tilts up for cable access
Colour	Silver	Silver	Silver	Silver	Silver	Silver
Supplied	Installation kit with instructions	Installation kit with instructions	Installation kit with instructions	Installation kit with instructions	Installation kit with instructions	Installation kit with instructions

# AV & Home Theatre

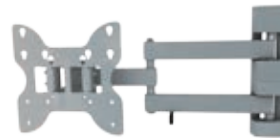
## HAV Mounting Systems Articulated & Tilting (smaller)

## HAV Mounting Systems Articulated & Tilting (larger)

Articulated mounts offer great flexibility in any situation. They are ideal when the viewing position changes between two adjoining areas or where space is tight in family rooms or bedrooms. With a pivot system which includes two or four arms, the television can be mounted in corners and can sit close to the wall like a conventional mount when folded.



10"-24"  
BC78198



14"-40"  
BC78199



10"-24"  
BC79138



32"-42"  
BC78200



14"-37"  
BC79587



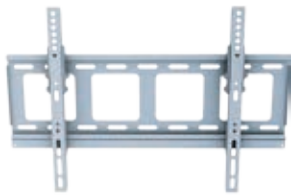
42"-65"  
BC79588

### Specifications

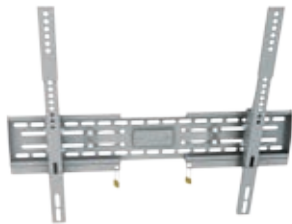
Model	BC78198	BC79138	BC79587	BC78199	BC78200	BC79588
TV Size	10"-24"	10"-24"	14"-37"	14"-40"	32"-42"	42"-65"
Depth	180mm Single Arm	322mm Two Arms	397mm Two Arms	467mm Two Arms	440mm Two Arms	516mm Quad Arms
Mount	VESA 75*75mm & 100*100mm	VESA 75*75mm & 100*100mm	VESA 75*75mm, 100*100mm & 200*200mm	VESA 75*75mm, 100*100mm & 200*200mm	VESA 400*300mm & 400*400mm	VESA 800*500mm
Weight	15kg	15kg	25kg	36kg	35kg	60kg
Wall	Single stud or masonry	Single stud or masonry	Single stud or masonry	Single stud or masonry wall	Single stud or masonry wall	Stud up to 600mm or masonry wall
Features	Easy to install keyway mounts	Easy to install keyway mounts	Easy to install keyway mounts	Easy to install keyway mounts	Horizontal Alignment	Horizontal Alignment
Colour	Silver	Silver	Silver	Silver	Silver	Silver
Supplied	Installation kit with instructions	Installation kit with instructions	Installation kit with instructions	Installation kit with instructions	Installation kit with instructions	Installation kit with instructions

## HAV Mounting Systems Tilting Slim LED/LCD

Tiltable mounts are a versatile solution for high mounted installation positions. Tilting is essential with LED/LCD models as the picture quality suffers when the viewing angle is too great.



32"-50"  
BC78201



26"-65"  
BC78202

### Specifications

Model	BC78201	BC78202
TV Size	32"-50"	26"-65"
Depth	33mm	62mm
Mount	VESA & NON VESA 600*400mm	VESA & NON VESA 200*100 to 800*500mm
Weight	50kg	50kg
Wall	Stud or masonry wall	Stud or masonry wall
Features	Locking bar 5° tilting	Horzt & Vert expansion 15° tilting + padlocks supplied
Colour	Silver	Silver
Supplied	Installation kit with instructions	Installation kit with instructions

# AV & Home Theatre

## HAV Installation Cables

	Product Name	Length	Part Number
Diamond	HAV Diamond HDMI HS* V1.4 (Blister packaging) *High Speed with ETHERNET, 3D, 1080p, X.V. Colour, Audio return	3M	BC79168
		5M	BC79167
Diamond	HAV Diamond Toslink For Audio (Blister packaging)	3M	BC79162
		5M	BC79161
Platinum	1RCA-1RCA High Quality Oxygen Free Cable (Blister packaging)	1.5M	BC74595
		3M	BC74596
		5M	BC74597
		10M	BC74598
	2RCA-2RCA High Quality Oxygen Free Cable (Blister packaging)	1.5M	BC74599
		3M	BC74600
		5M	BC74601
		10M	BC74602
	3RCA-3RCA High Quality Oxygen Free Cable (Blister packaging)	1.5M	1.5M
		3M	3M
		5M	5M
		10M	10M
Platinum OFC SCART-3 RCA Composite AV(Blister packaging)	1.5M	BC74619	
	3M	BC74620	
	5M	BC74621	
Platinum OFC SCART-5 RCA Composite AV(Blister packaging)	1.5M	BC74616	
	3M	BC74617	
	5M	BC74618	
Platinum HDMI* (Blister packaging) *High Speed with ETHERNET, 3D, 1080p, X.V. Colour	1.5M	BC74456A	
	3M	BC74457A	
	5M	BC74458A	
Gold/ Silver 18G - 28 x 0.15mm x 2-OD:2mm x 2	100M	BC74608	
	Gold/ Silver 16G - 63 x 0.15mm x 2-OD:3.2mm x 2	100M	BC74610



## HAV Installation Cables

	Product Name	Length	Part Number
	Gold/Silver 14G -105 x 0.15mm x 2-OD:3.5mm x 2	100M	BC74611
	Gold/Silver 12G -168 x 0.15mm x 2-OD:4.5mm x 2	100M	BC74612
	Paintable Black-OFC 133x0.12mm x 2-OD:5.8 x 2.1mm	30M	BC74613
	Silver Tinned OFC 128 x 0.12mm x 2-OD:5.0 x 2.5mm	30M	BC74614
	Silver Tinned OFC 264 x 0.12mm x 2-OD:6.3 x 3.2mm	30M	BC74615
Installer 	HDMI Dongle Plug/Plug (packaging plastic bag)	400MM	BC77401
	HDMI Dongle Plug/Socket (packaging plastic bag)	400MM	BC77402
	INSTALLER 28AWG HDMI To HDMI Cable (packaging plastic bag) R/ANGLE To Straight HDMI V1.4*	3M	BC79160
	*High Speed with ETHERNET, 3D, 1080p, X.V. Colour, Audio return	5M	BC79159
	INSTALLER 26AWG HDMI To HDMI Cable (packaging plastic bag) Straight To Straight HDMI V1.4*	10M	BC75716
	*High Speed with ETHERNET, 3D, 1080p, X.V. Colour, Audio return	15M	BC81340
	White GPO HDMI X 1 Socket/Socket With Short Cable		BC77403

# AV & Home Theatre

## HILLS Installation Cables

	Product Name	Length	Part Number
	LAN CAT 6 Cable Box Twisted Pair Solid Copper chore (packaging box)	305M	BC80245
	Pre Terminated 568B RJ45/RJ45 Cat 6 Pair UTP for HDMI Solid Copper Chore Snag Proof Plugs, Cream/Black	20M Each	BC80300
	Pre Terminated 568B RJ45/RJ45 Cat 6 UTP for HDMI Solid Copper Chore Snag Proof Plugs, Yellow (packaging plastic bag)	35M	BC81339
	Toslink-Mini Plug (packaging plastic bag)	3M	BC88013
	HDMI High Speed 30AWG Austar V1.3 (Packaging bag of 5)	2M	BC81273
	HDMI High Speed 30AWG Austar V1.3 (Packaging box of 100)	2M	BC81273B
	DVI HDMI (packaging plastic bag)	1.5M	BC74641
		3M	BC74642
	FOXTEL HDMI High Speed (packaging plastic bag)	1.5M	BC74643A
		3M	BC74644A
	HDMI V1.3B 4X1 Switch/Adaptor FOXTEL Approved (packaging box)		BC74645

## High Definition Digital Terrestrial Receiver HD94003G



### Features

- MPEG-2, H.264/MPEG4 DVB-T Compliant Easy conversion between SD programs and HD programs
- 47MHz-870MHz Input Frequency
- Audio Description (AD) and 3.5mm headphone jack on the front of the unit, Auto or Manual search function
- 32 bits True Color On Screen Display, Easy operation
- EPG, SUBTITLE, function
- Dynamic Hi-Fi Stereo sound, MPEG-1. MPEG-2, DOLBY DIGITAL, audio decoding
- Software Upgrade through USB
- Over the air upgrade (OASSU)
- Remote Control with audible response and low battery indicator.

### Specifications

Product Code	BC81281
Model	HD94003G High Definition Set Top Box
Video Decoding	
MPEG	MPEG2 MP@ML, MPEG2 MP@HL, MPEG4 AVC/H.264 HP@L4
Resolution	SD:480p HD:1080i 720p
Aspect Ratio	4:3,16:9
Audio	
Decoding	MPEG-1, MPEG-2,MPEG-2 AAC,MPEG-4 AAC, Dolby Digital
Mode	Stereo, Left Mono, Right Mono
Sampling Rate	32K, 44.1K, 48K or 192KHz
Digital Audio Output	IEC958/IEC1937 digital audio output interface (S/PDIF)
Tuner	
Tuner ANT Input	IEC 169-2 Female
Tuner Modulated RF Output	IEC 169-2 Male
Input Impedance	75 ohm
Frequency Range	47MHz-870MHz
Input Signal Level	COFDM:-78~ -10 dBmV
Demodulator	QPSK,QAM16,QAM64
Operating Temperature	0°C to +45°C
Dimension	280mm (W) x 200mm (D) x 41mm (H)



# Energy

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## Thor Power Conditioning

### Smart Power Station



BC81291

### Smart Power Station



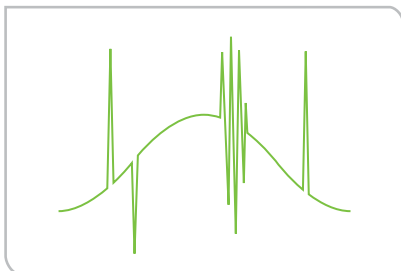
BC81292

### Features

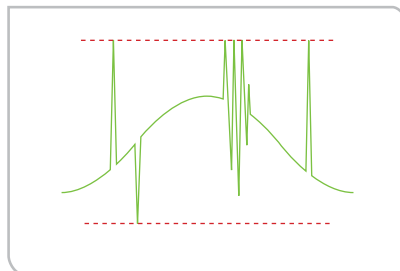
- HDMI 1.3 3 D & DVI 1.0 compliant
- Pure unpolluted 240v/220v sinewave power 24/7
- Whisper quiet servo motor for voltage calibration
- Delay start secondary protection strategy
- Microprocessor controls
- Dual LED display indicating incoming power and output power
- Middle display shows current load of connected components
- 10 Other LED alerts showing various power changes instantly
- Frontline filtering and surge protection through power station
- Double filter trap and double voltage protection through custom 8 way Smart Board

### Features

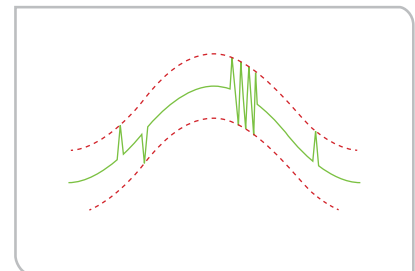
- Pure unpolluted 240v/220v sinewave power 24/7
- Whisper quiet servo motor for voltage calibration
- Delay start secondary protection strategy
- Microprocessor controls
- Dual LED display indicating incoming power and output power
- Middle display shows current load of connected components
- 10 Other LED alerts showing various power changes instantly
- Frontline filtering and surge protection through power station
- 20AMP capacity



Normal Unprotected



Traditional Protection



Active Tracking

## Thor Power Boards

### Smart Board with Dynamic Active Tracking



BC81282

#### Features

- LED control resistors
- Toroidal coils for maximum filtration
- AV/TV protected outlets with splitter — 1 line in, 2 lines out. RJ 45 Data Protection with splitter — 1 line in, 2 lines out. For standard 75 Ohm Co-ax cables
- Extra large metal oxide protection varistors
- Safety fuses
- Protection on all 3 conductors (Active, Neutral and Earth)
- Polyester Film Capacitors to Prevent inter-circuit interference (EMF, EMI and RFI)
- Active Tracking Decoupling Capacitors
- Safety Bleeder Resistor
- High Voltage Diodes
- Ultra Fast DC Protection Circuit
- Resettable safety 10 amp circuit breaker

#### Specifications

- Supply Voltage 240/Vac 50/Hz
- Maximum Current Rating 10amps/2400W (Va)
- Clamping Voltage 275Vac
- Reaction Time Less than 1 Nano Sec
- Maximum Transient Spike Impulse Current (AMPS) 208,000 amps. Equivalent to 52,000 Amps using UL1449 standard
- Maximum Energy Dissipation (Joules) 6080 Joules
- Protection Modes (all 8 outlets Protects on all 3 conductors) Active/Neutral, Active/Earth, Neutral/Earth
- EMI/RFI Noise Reduction Filter Type Dynamic Active Tracking™ incorporating 38 separate protection components in 3 cascading circuits
- Number of Multi-Stage Filter Banks: 3
- Number of Isolated Banks: 3
- Number of Dedicated Outlets: 4+3+1
- Total Number of Protected AC Outlets: 8
- RJ 45 Data Protection (1 in — 2 out)
- Incoming Television Aerial Protection (DC) with 1 x 'F' Type Pay TV Connection & 1 x AV/TV Coax Connection
- Earth Potential Rise Protection
- Earth leakage Range Less than 1 milli amp
- Operating conditions Indoor/AC Mains
- Operating Temperatures - 10C/+60C

### Smart Rack Guard 11



BC81283

#### Features

- Designed to fit 19" crowded racks
- Only 1RU – space saving, neat and compact
- Dual circuit protection against dangerous spikes & surges
- EMI/RFI filtration. Reducing system lockups, file corruption and software glitches
- 7 Australian pin outlets and 4 IEC outlets for greater flexibility
- LED indicators illuminate if any surge damage sustained

#### Specifications

- Supply Voltage 240/Vac 50/Hz
- Maximum Current Rating 10amps/2400 W (Va)
- Clamping Voltage 275Vac
- Reaction Time less than 1 Nano Sec
- Maximum Transient Spike Impulse Current (AMPS) 156,000 amps. Equivalent to 39,000 Amps using UL1449 standard
- Maximum Energy Dissipation (Joules) 3420 Joules
- Protection Modes (all 11 outlets protects on all 3 conductors) Active/Neutral, Active/Earth, Neutral/Earth
- EMI/RFI Noise Reduction Filter
- Total Number of Protected AC Outlets 11
- Earth Potential Rise Protection
- Earth leakage Range less than 1 milli amp
- Operating conditions Indoor/AC Mains
- Operating Temperatures -10C/+60C

## Thor Power Boards

### Green Board



BC81284

### Features

- LED control resistors
- Toroidal coils for maximum filtration
- AV/TV protected outlets - Now with BOTH dedicated Co-Ax and F-Type aerial protection. RJ 45 Data Protection - 1 line in, 2 lines out. For standard 75 Ohm Co-ax cables
- Extra large metal oxide protection varistors
- Safety fuses
- Protection on all 3 conductors (Active, Neutral and Earth)
- Polyester Film Capacitors to Prevent inter-circuit interference (EMF, EMI and RFI)
- Safety Bleeder Resistor
- High Voltage Diodes
- Ultra Fast DC Protection Circuit
- Resettable safety 10 amp circuit breaker

### Specifications

- Supply Voltage 240/Vac 50/Hz
- Maximum Current Rating 10amps/2400 W (Va)
- Clamping Voltage 275Vac
- Reaction Time Less than 1 Nano Sec
- Maximum Transient Spike Impulse Current (AMPS) 196,000 amps. Equivalent to 49,000 Amps using UL1449 standard
- Maximum Energy Dissipation (Joules) 4890 Joules
- Protection Modes (all 8 outlets Protects on all 3 conductors) Active/Neutral, Active/Earth, Neutral/Earth
- EMI/RFI Noise Reduction Filter Type. Cascade dual bank isolation with 2 cascading circuits
- Number of Multi-Stage Filter Banks 2
- Number of Isolated Banks 2
- Number of Dedicated Outlets 4+4
- Total Number of Protected AC Outlets 8
- RJ 45 Data Protection (1 in - 2 out)
- AV/TV Connection In & Out
- Cable TV 'F' Type Connection In & Out
- Earth Potential Rise Protection
- Earth leakage Range Less than 1 milli amp
- Operating conditions Indoor/AC Mains
- Operating Temperatures - 10C/+60C

### Smart Protect 4



BC81286

### Features

- 4 Outlets
- Broadband
- Pay TV
- Antenna & network
- Maximum fire safety
- Only manufactured with flame retardant plastics
- 100% Australian owned and compliant
- Massive 125,000 amp, maximum spikes 3670 joules

### Specifications

- Supply Voltage 240/Vac 50/Hz
- Maximum Current Rating 10amps/2400 W (Va)
- Clamping Voltage 275Vac
- Reaction Time Less than 1 Nano Sec
- Maximum Transient Spike Impulse Current (AMPS) 125,000 amps. Equivalent to 31,200 Amps using UL1449 standard
- Maximum Energy Dissipation (Joules) 3670 Joules
- Protection Modes (all 4 outlets Protects on all 3 conductors) Active/Neutral, Active/Earth, Neutral/Earth
- EMI/RFI Noise Reduction Filter
- Total Number of Protected AC Outlets 4
- Pay TV 'F' Type Connection (1 x IN - 1 x OUT)
- AV/TV Antennae Coax Connection (1 x IN - 1 x OUT)
- RJ 45 Data Protection (1 x IN - 1 x OUT)
- Earth Potential Rise Protection
- Earth leakage Range Less than 1 milli amp
- Operating conditions Indoor / AC Mains
- Operating Temperatures - 10C/+60C
- Cable length 1.2m
- RCM 5287 - Regulatory Compliance Mark
- Model No E1/45B



## Thor Smart Filters

### Smart Filter



BC81285

### Features

- 7 Outlets
- Broadband and network ready
- Multiple application identity tags
- 6-Year free replacement warranty
- 100% Australian owned and compliant
- RJ45 connection

### Specifications

- Supply Voltage 240/Vac 50/Hz
- Maximum Current Rating 10amps/2400 W (Va)
- Clamping Voltage 275Vac
- Reaction Time less than 1 Nano Sec
- Maximum Transient Spike Impulse Current (AMPS) 156,000 amps. Equivalent to 39,000 Amps using UL1449 standard
- Maximum Energy Dissipation (Joules) 4588 Joules
- Protection Modes (all 7 outlets protects on all 3 conductors) Active/Neutral, Active/Earth, Neutral/Earth
- EMI/RFI Noise Reduction Filter
- Total Number of Protected AC Outlets 7
- RJ 45 Data Protection (1 in — 1 out)
- Earth Potential Rise Protection (DC)
- Earth leakage Range less than 1 milli amp
- Operating conditions Indoor/AC Mains
- Operating Temperatures -10C/+60C
- Safety Approval No. Q01652
- Cable length 1.2m

### Smart Filter Duo



BC81287

### Features

- 2 Outlets with 1 metre extension cord
- Space saving flat head plug
- Earth detection and power LED
- Multiple application identity tags
- 6-Year free replacement warranty
- 100% Australian owned and compliant

### Specifications

- Supply Voltage 240 Vac 50 Hz
- Maximum Current Rating 10amps/2400 W (Va)
- Clamping Voltage 275v
- Reaction Time less than 1 Nano Sec
- Maximum Transient Spike Impulse Current (AMPS) 42,000 amps. Equivalent to 14,000 Amps using UL1449 standard
- Maximum Energy Dissipation (Joules) 1880 Joules
- Protection Modes: Active/Neutral, Active/Earth, Neutral/Earth
- EMI/RFI Noise Reduction Filter
- Total Number of Protected AC Outlets: 2
- Earth Potential Rise Protection
- Earth leakage Range: less than 1 milli amp
- Earth detection circuit: Yes
- Operating conditions Indoor/AC Mains
- Operating Temperatures -10C/+60C

## Thor Smart Filters

### Smart Cavity Mount



BC81288

### Smart DIN Rail 20 Amp



BC81289

### Features

- Dynamic active tracking double filtration
- 16 Separate protection & filtration components
- Internal back EMF protected
- High temp/high impact polycarbonate housing
- EMI/RFI noise reduction filter type
- Rated for 1 to 4 outlet, wall plates (optional) POA

### Smart DIN Rail 30 Amp



BC81290

### Features

- Dynamic active tracking double filtration
- 32 Separate protection & filtration components
- Internal back EMF protected
- High temp/high impact polycarbonate housing
- EMI/RFI noise reduction filter type
- Available in 20 or 30amp

### Specifications

- Supply Voltage 240/VAC 50/Hz
- Maximum Current Rating 16 amps/3840W (VA)
- Clamping Voltage 275 VAC Reaction Time Less than 1 Nano sec
- Maximum Transient Spike Impulse Current (Amps) 49,000 Amps
- Maximum Energy Dissipation (Joules) 1330 Joules
- Protection Modes (all 3 conductors) Active/Neutral, Active/Earth, Neutral/Earth
- Earth Leakage Range Less than 1m Amp
- Operating Conditions Indoor/AC Mains
- Operating Temperature -10 0 C/+60 0C

### Specifications

Product Code		
Supply Voltage	240/Vac 50/Hz	240/Vac 50/Hz
Maximum Current Rating	20amps/4800 W (Va)	30amps/7200 W (Va)
Clamping Voltage	275Vac	
Reaction Time	Less than 1 Nano Sec	
Maximum Transient Spike Impulse Current (AMPS)	49,000 amps	76,000 amps
Maximum Energy Dissipation (Joules)	1330 Joules	2320 Joules
Protected AC	Incorporating 32 separate protection components	
Earth leakage Range	Less than 1 milli amp	
Operating conditions	Indoor / AC Mains	
Operating Temperatures	- 10C/+60C	

## OWL Energy Monitoring

The OWL range of energy monitoring devices offer intelligent wireless energy monitoring and control. The devices monitor all main energy use to encourage positive behavioural change that can reduce household energy bills by up to 25%. OWL Energy Monitors are suitable for domestic and light commercial applications, including solar PV and 3-phase installations.

Monitor using an **OWL micro+** or **OWL+USB** In-Home Display and via broadband using the **OWL Intuition** range of devices.

The **OWL Intuition range** offers a modular, Internet connected monitoring and control system that can manage electricity supply, solar PV generation, central heating and hot water. Each module can be added individually to create a total energy management and control system which can be accessed on a PC or tablet via a web portal, or on a mobile device using Apple™ and Android™ Apps.

### OWL Micro+ (Table mount only)



BC81388

#### Features

- Real time and accumulative consumption in kW & kWh
- Real time and accumulative cost of consumption in £,\$,€
- Real time and accumulative equivalent CO2 emissions
- Average consumption – Day, Week, Month
- Comparative/historical consumption – this/last day, this/last week, this/last month
- Current time and date

#### Specifications

- Operating frequency 433MHz
- Operating range up to 30m
- 12 second refresh rate
- Display battery life > 14 months
- Transmitter battery life > 14 months
- Sensor suitable to monitor cables rated up to 71A
- Storage Conditions: -25 °C to +65 °C
- Relative Humidity: 25% to 95%
- Operating Temperature: 0 °C to 40 °C
- Ingress Protection: IP3

### OWL + USB (Table mount & wall mount)



BC79006

#### Features

- Real time and accumulated consumption
- Cost of current & accumulated electricity consumption display
- Power consumption (kW) display
- Current consumption (Amps) display
- Accumulated energy consumption (kWh) display
- Current & accumulated Greenhouse gas (GHG) emission rate display
- Average & Historical displays for all main values

#### Specifications

- Operating frequency 433MHz
- Operating range up to 30m 12 second refresh rate
- Display battery life > 18 months
- Transmitter battery life > 18 months
- Sensor suitable to monitor cables rated up to 71A
- Storage conditions: -5°C to +60°C
- Relative humidity: 25% to 95% non condensing
- Operating temperature: 5°C to 45°C
- Ingress protection: IP30
- Operating temperature: 0°C to 40°C
- Ingress protection: IP30

### In-Home Display Accessories

BC79004	OWL Sensor only Standard 71amp	Add extra two Sensors for 3 phase IHD domestic installations
BC79005	OWL Sensor only Large 200amp	Add extra two Sensors for 3 phase light commercial installations

## OWL Energy Monitoring

### OWL Intuition Series



### Features

- Energy data is automatically and continuously collected and stored within the Intelligent Cloud via a Network OWL connected to your existing broadband Internet connection
- Real time and accumulated data can be viewed via Web browsers (including Apple™ iPad) iPhone and Android™ smartphones
- Easy to read graphs with hover over detail values
- Clear summary information with trend indicators and “hover-over” analysis
- Easy to read graphs with hover-over detail values
- Print or download graphs
- Supports Economy 7 timed tariffs
- Optional data push via Multicast protocol
- Software is upgradable to provide access to future new features and services

### OWL Intuition-e

- Provides real-time access to your electricity consumption data through your web browser, smart phone or tablet.

### OWL Intuition-pv

- Compliment and monitor Solar PV installation.
- Monitors the energy your home is currently consuming and hence how much power is being imported from or exported to the grid.

### OWL Intuition-lc

- Monitors multi-phase or up to 3 separate electricity feeds in large domestic or light industrial applications.

### Specifications

- Operating frequency:
- Transmitter - 433MHz
- Network OWL Gateway – 433MHz and 868MHz
- Operating range up to 30m
- 12 second refresh rate (Electricity consumption data)
- Transmitter battery life > 14 months
- Sensor suitable to monitor cables rated up to 71A
- Storage conditions: -25°C to +65°C
- Relative humidity: 25% to 95% non-condensing

### OWL Intuition Series

KC4615	OWL Micro+ Intuition-e Bundle	For single phase installations-includes OWL Micro+ IHD, Network gateway, Transmitter and Sensor
KC4609	OWL+USB+ Intuition-e Bundle	For single phase installations-includes OWL+USB IHD, Network gateway, Transmitter and Sensor
KC4610	OWK Intuition-e System	For single phase installations-includes Network gateway, Transmitter and Sensor
KC4613	OWL Intuition-pv(Type1) System	For Solar PV Type 1 installations-includes Network gateway, Transmitter and Sensors
KC4614	OWL Intuition-pv(Type2) System	For Solar PV Type 2 installations-includes Network gateway, Transmitter and Sensors
KC4611	OWL Intuition-LC 71amp/phase System	For 3 phase domestic installations-includes Network gateway, Transmitter and Sensors
KC4612	OWL Intuition-LC 200amp/phase System	For 3 phase light commercial installations-includes Network gateway, Transmitter and Sensors

### OWL Intuition System Components

BC84097	Network OWL Gateway Pack	Can be added to existing OWL IHD installations* to upgrade for web access via PC, Tablet or smartphone *refer compatibility list
BC84099	Intuition-e Sensor Pack	Includes Transmitter and Sensor
BC84098	Intuition-pv Sensor Pack	Includes Transmitter and Sensor
BC84096	Y-Cable Kit for Solar PV type 2 Installations	Includes Y-Cable and Sensor Refer to application note for details
BC84100	Intuition-lc Sensor Pack – Standard 71amp	Includes Transmitter and Sensors
BC84095	Intuition-lc Sensor Pack – Large 200amp	Includes Transmitter and Sensors

# Hills Home Hub

Hills Home Hub ..... 126

# Hills Home Hub

## Hills Home Hub Hills Home Hub



**Smart home. Smart choice.**

Structured cabling with the



Build a smart home with the Hills Home Hub and add smart modules to experience the latest in whole house entertainment and living. These include ultrafast broadband internet, HD digital TV, telephone services, security and safety systems.

### Smart Home

Building a smart home is easy. Simply select the lifestyle features you want, and ask your builder to install them during construction. It's important they know what options you want as early as possible which makes it affordable.

Hills Home Hub. Smart home. Smart choice.



## Hills Home Hub Hills Home Hub

### Broadband Internet & Telephony

Get maximum speed and bandwidth by installing data outlets in every location of your home. You've probably experienced the frustration of slow wireless internet because wireless shares bandwidth and gets slower when more people use it.

Most new homes in greenfield estates are cabled with fiber optics which will give you access in the future to the latest in e-health services, National Broadband Network (NBN), and more. So ensure you have data points located for convenient access.

Some TVs, online gaming consoles, and media servers connect to the internet so you can enjoy the latest in digital entertainment, so remember to put outlets in all possible entertainment areas.

Cabled connections are also more reliable to use.



### Home Entertainment

Enjoy the latest TV shows in crisp HD picture and amazing surround sound.

Latest surveys show the average Australian family has 3 TVs. Make sure every room of your home has a TV outlet so you can easily connect a TV today or in the future.



### Distributed Music

After a long day at work all you want to do is come home, sit back, and relax. Hills Music can play your favourite music throughout your home. Each room can access up to 5 music sources at the touch of a finger.

Relax and enjoy Hills Music. You deserve it.



# Hills Home Hub

## Hills Home Hub Hills Home Hub

### HHH400S Surface Hub with Power Supply



Surface mounted  
Supplied with a Hills Security System mounting bracket.  
Dimensions: 480mmH x 370mmW x 110mmD  
Approximate Module Capacity: 6  
Comes with HPS-25W Power Supply S3489

### HHH400F Flush Hub with Power Supply



Can be concealed into most wall types including double brick & dry walls with min of 90mm depth.  
Supplied with a Hills Security System mounting bracket.  
Back box: 480mmH x 365mmW x 88mmD  
Surround frame: 540mmH x 415mmW  
Approximate Module Capacity: 6  
Comes with HPS-25W Power Supply S3491

### HHH600F Universal Hub with Power Supply



Universal mounting (flush or surface)  
Can be concealed in most wall types including double brick walls with 90mm depth or greater.  
Supplied with a Hills Security System mounting bracket.  
Back box: 600mmH x 405mmW x 110mmD  
Surround frame: 701mmH x 506mmW  
Approximate Module Capacity: 8  
Comes with HPS-25W Power Supply S3492

### HHH1000 Universal Hub with Power Supply



Universal mounting (flush or surface)  
Can be concealed in most wall types including double brick walls with 90mm depth or greater.  
Removable door for installation convenience.  
Has flexible equipment fixing design.  
Back box: 1066mmH x 362mmW x 100mmD  
Cover: 1105mmH x 400mmW  
Approximate Modules: 16  
Comes with HPS-25W Power Supply S3494

### HHH400F HUB With PH/TV Distribution\*



#### S3447 includes:

1 x S2368  
Hills Home Hub 400 Series - Surface  
1 x S2267  
Power Supply 25 Watts 18V AC  
1 x S2119  
8 Port Computer Patch Panel  
1 x S2463  
Patching Telephone Module  
1 x S3437  
Active Distribution Splitter + Lead  
1 x S3219  
Hub Accessory Plate - 1 module  
8 x S2409  
Patch Cord 0.5m UTP C5E

### HHH400s Hub With PH/TV Distribution\*



#### S3448 includes:

1 x S2491  
Hills Home Hub 400 Series - Surface  
1 x S2267  
Power Supply 25 Watts 18V AC  
1 x S2119  
8 Port Computer Patch Panel  
1 x S2463  
Patching Telephone Module  
1 x S3437  
Active Distribution Splitter + Lead  
1 x S3219  
Hub Accessory Plate - 1 module  
8 x S2409  
Patch Cord 0.5m UTP C5E

### HHH600 Hub with PH/Data/TV Distribution\*



#### S3446 includes:

1 x S2203  
Hills Home Hub 400 Series - Surface  
1 x S2267  
Power Supply 25 Watts 18V AC  
1 x S2463  
Patching Telephone Module  
1 x S2240  
8 Port Ethernet Switch  
1 x S3437  
Active Distribution Splitter + Lead  
1 x S2119  
8 Port Computer Patch Panel  
8 x S2409  
Patch Cord 0.5m UTP C5E

\* image for display purpose only



## Hills Home Hub Hills Home Hub

### HHH1000 Hub With PH/Data/IR/TV Distribution\*



#### S3449 includes:

- 1 x S3399
- Hills Home Hub 1000 Series Universal
- 1 x S2267
- Power Supply 25 Watts 18V AC
- 1 x S2463
- Patching Telephone Module
- 1 x S2240
- 8 Port Ethernet Switch
- 1 x S3437
- Active Distribution Splitter + Lead
- 1 x S2124
- 8 Zone IR Module
- 1 x S2119
- 8 Port Computer Patch Panel
- 8 x S2409
- Patch Cord 0.5m UTP C5E

### HUB ENCLOSURE MODULES

#### Hub Accessory Plate - 2 module

Used with S3435 multiswitch  
160mmW x 178mmH  
S2127



#### Hub Accessory Plate - 1 module

Used with S3437 HADS splitter  
158mmW x 74mmH  
S3219

### TELEPHONE MODULES

#### Patching Telephone Module

4 telephone lines IN, 8 telephone locations OUT  
Built-in Security System Mode 3 connection  
4 line expansion port  
75mmH x 159mmW x 22mmD  
S2463



#### Patch Down Telephone Module

4 telephone lines IN, 8 telephone locations OUT  
Built-in Security System Mode 3 connection  
4 line expansion port  
75mmH x 159mmW x 22mmD  
S2120



### DATA MODULES

#### 8 Port Computer Patch Panel

Provides a network interface for LAN and telephone applications  
Supports Cat 5E and Cat 6 performance  
75mmH x 159mmW x 22mmD  
S2119



#### 8 Port Ethernet Switch

Compatible for connecting computer networks and Ethernet-based broadband internet services  
102mmH x 159mmW x 30mmD  
S2240



### VIDEO MODULES

#### Active Video Splitter - 2 IN 6 OUT

Inputs are capable of accepting signals from Free-to-Air, CATV modulators and security cameras  
72.5mmH x 165mmW x 25mmD  
S2707



#### Passive Splitter - 1 IN 4 OUT

Passive video splitter module used to route Free-to-Air, CATV modulator and satellite signals to multiple locations  
102mmH x 159mmW x 100mmD  
S2126



#### Active Distribution Splitter + Lead - 3 IN x 6 OUT with IR

3 IN x 6 Active Outputs  
Inputs are capable of accepting signals from Free-to-Air, CATV modulators and security cameras  
75mmH x 150mmW x 161mmD  
S3437



#### 4 Channel Video Modulator

PAL TV modulation  
Ideal for use with VCR's, DVD players and security cameras  
49mmH x 268mmW x 75mmD  
HI2014



#### Single Channel Video Modulator

PAL TV modulation  
Ideal for use with VCR's, DVD players and security cameras  
76mmH x 165mmW x 59mmD  
S1360A



#### 12v DC 1 AMP plug Pack for S1360A

S1251A

## Hills Home Hub Hills Home Hub

### INFRARED MODULES



#### 8 Zone IR Module

Receives IR signals from up to 8 remote IR receiver locations then distributes those signals to 8 IR emitter locations for equipment control  
76mmH x 165mmW x 22mmD  
S2124



#### IR Emitter - Single Output S3869



#### IR Emitter - Dual Output S3868



#### Wired IR Target

receives IR signals from handheld remote controls and sends them to the IR emitter via the IR distribution module to control electronic devices  
S1288A



#### Remote Room IR Target - RF

receives IR signals from handheld remote controls and sends them to the Active Distribution Splitter  
HI3041

### POWER SUPPLY MODULES



#### Power Supply 60 Watts 12V DC Music Power

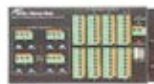
Supply Module  
Total Power Output: 60Watts or 5 Amps @12V DC  
S2121



#### Power Supply 25 Watts 18V AC

Total DC Power Output: 25Watts or 2 Amps @ 12V DC  
Total AC Power Output: 18V AC @ 1.5 Amps  
S2267

### MUSIC MODULES



#### Multi Source Music Hub - 8 Locations

Accepts up to four (4) line level stereo audio sources  
S4731



#### Music Room Manager

Used with S4731  
Allows control of volume & selection between the 4 audio sources.  
Also accepts one (1) additional Aux line level stereo audio source input, which is ideal for most local portable music sources such as MP3 or CD players.  
Includes HDV Remote Control  
S4730



#### HDV Remote Control

Used as an additional item with S4730  
S4732

## Hills Home Hub Hills Home Hub

### Kit Phone/Data Single Gang Wall Plate



#### S3294

Clipsal Type includes:  
1 x S3196  
Clipsal 1 Gang Plate & Grid 2000 Series  
1 x S2686  
RJ Cat6 Mechanism - C Type

### Kit Phone/Data Single Gang Wall Plate



#### S3298

HPM Type includes:  
1 x S3212  
HPM Flush Surround & 1 Gang Grid Wall Plate  
1 x S2687  
RJ Cat6 Mechanism - H Type

### Kit Phone/Data 2 Gang Wall Plate



#### S3307

HPM Type includes:  
1 x S3197  
Clipsal 2 Gang Plate & Grid 2000 Series  
2 x S2686  
RJ Cat6 Mechanism - C Type

### Kit Phone/Data 2 Gang Wall Plate



#### S3314

HPM Type includes:  
1 x S3184  
HPM Flush Surround & 2 Gang Grid Wall Plate  
1 x S2687  
RJ Cat6 Mechanism - H Type

### Kit Pay TV/TV + Phone + Data + IR 6 Gang Wall Plate



#### S3450

Clipsal Type includes:  
1 x S3201  
Clipsal 6 Gang Plate & Grid 2000 Series  
2 x S2686  
RJ Cat6 Mechanism - C Type  
1 x S2689  
3.5mm to IDC Mechanism - C Type  
1 x S2695  
F To F Mechanism - C Type  
1 x S2355  
Diplexer PAL/F Type - C Type

### Kit Pay TV/TV + Phone + Data + IR



#### S3451

6 Gang Wall Plate - HPM Type includes:  
1 x S3188  
HPM Flush Surround & 6 Gang Grid Wall Plate  
2 x S2687  
RJ Cat6 Mechanism - H Type  
1 x S2688  
3.5mm to IDC Mechanism - H Type  
1 x S2696  
F To F Mechanism - H Type  
1 x S2354  
Diplexer PAL/F Type - H Type

### Kit TV+ Phone + Data + IR 5 Gang



#### S3452

Wall Plate - Clipsal Type includes:  
1 x S3200  
Clipsal 5 Gang Plate & Grid 2000 Series  
2 x S2686  
RJ Cat6 Mechanism - C Type  
1 x S2689  
3.5mm to IDC Mechanism - C Type  
1 x S2355  
Diplexer PAL/F Type - C Type

### Kit Phone/Data 2 Gang Wall Plate



#### S3453

Wall Plate - HPM Type includes:  
1 x S3187  
HPM Flush Surround & 5 Gang Grid Wall Plate  
2 x S2687  
RJ Cat6 Mechanism - H Type  
1 x S2688  
3.5mm to IDC Mechanism - H Type  
1 x S2354  
Diplexer PAL/F Type - H Type

## Hills Home Hub Hills Home Hub

### Kit PAL TV 1 Gang Wall Plate

#### S3454

Clipsal Type includes:  
1 x S3196  
Clipsal 1 Gang Plate & Grid 2000 Series  
1 x S2697  
PAL To F Mechanism - C Type



### Kit PAL TV 1 Gang Wall Plate

#### S3455

HPM Type includes:  
1 x S3212  
HPM Flush Surround & 1 Gang Grid Wall Plate  
1 x S2698  
PAL To F Mechanism - H Type



### Kit TV + Phone + IR 3 Gang Wall Plate

#### S3458

Clipsal Type includes:  
1 x S3198  
Clipsal 3 Gang Plate & Grid 2000 Series  
1 x S2686  
RJ Cat6 Mechanism - C Type  
1 x S2689  
3.5mm to IDC Mechanism - C Type  
1 x S2697  
PAL To F Mechanism - C Type



### Kit TV + Phone + IR 3 Gang Wall Plate

#### S3459

HPM Type includes:  
1 x S3185  
HPM Flush Surround & 3 Gang Grid Wall Plate  
1 x S2687  
RJ Cat6 Mechanism - H Type  
1 x S2688  
3.5mm to IDC Mechanism - H Type  
1 x S2698  
PAL To F Mechanism - H Type



### Kit Pay + TV + Modulator + IR + Data 8 Gang Wall Plate

#### S3460

Clipsal Type includes:  
1 x S3192  
Clipsal Surround 2 Gang Vertical 2000 Series  
2 x S3199  
Clipsal 4 Gang Plate & Grid 2000 Series  
2 x S2686  
RJ Cat6 Mechanism - C Type  
2 x S2689  
3.5mm to IDC Mechanism - C Type  
2 x S2695  
F To F Mechanism - C Type  
1 x S2355  
Diplexer PAL/F Type - C Type



### Kit Pay + TV + Modulator + IR + Data 8 Gang Wall Plate

#### S3461

HPM Type includes:  
2 x S3186  
HPM Flush Surround & 4 Gang Grid Wall Plate  
2 x S2687  
RJ Cat6 Mechanism - H Type  
2 x S2688  
3.5mm to IDC Mechanism - H Type  
2 x S2696  
F To F Mechanism - H Type  
1 x S2354  
Diplexer PAL/F Type - H Type



### Kit Home Theatre Component & Composite

#### S3462

Clipsal Type includes:  
1 x S3201  
Clipsal 6 Gang Plate & Grid 2000 Series  
1 x S2773  
RCA Composite F 3pcs Pack - C Type  
1 x S2775  
RCA Component F 3pcs Pack - C Type



## Hills Home Hub Hills Home Hub

### Kit Home Theatre Component & Composite

#### S3463

HPM Type includes:

1 x S3188

HPM Flush Surround & 6 Gang Grid Wall Plate

1 x S2770

RCA Composite F 3pcs Pack - H Type

1 x S2774

RCA Component F 3pcs Pack - H Type

1 x S2773

RCA Composite F 3pcs Pack - C Type



### Kit Home Theatre Composite + IR / Auxiliary

#### S3465

HPM Type includes:

1 x S3188

HPM Flush Surround & 6 Gang Grid Wall Plate

3 x S2688

3.5mm to IDC Mechanism - H Type RCA

1 x S2770

Composite F 3pcs Pack - H Type



### Kit Single Source 3.5mm to IDC - Clipsal

#### S3468

Type Includes:

1 x S3196

Clipsal 1 Gang Plate & Grid 2000 Series

1 x S2689

3.5mm to IDC Mechanism - C Type



### Kit Single Source 3.5mm to IDC - HPM Type

#### S3469

includes:

1 x S3212

HPM Flush Surround & 1 Gang Grid Wall Plate

1 x S2688

3.5mm to IDC Mechanism - H Type



### Kit 4 Way Source 3.5mm to IDC - Clipsal Type

#### S3472

includes:

1 x S3199

Clipsal 4 Gang Plate & Grid 2000 Series

4 x S2689

3.5mm to IDC Mechanism - C Type



### Kit 4 Way Source 3.5mm to IDC - HPM Type

#### S3473

includes:

1 x S3186

HPM Flush Surround & 4 Gang Grid Wall Plate

4 x S2688

3.5mm to IDC Mechanism - H Type



### Banana Plug Pair - Red & Black

#### S2711

H TYPE (HPM Grid Plate Compatible)



### Blank Mechanism 10 Pcs Pack - H Type

#### S2684



### RJ Cat6 Mechanism - H Type

#### S2687



### 3.5mm to IDC Mechanism - H Type

#### S2688



### RCA To F Mechanism - H Type

#### S2693



### F To F Mechanism - H Type

#### S2696

Foxtel / Austar approved for Australian Subscription TV connection



## Hills Home Hub Hills Home Hub

### PAL To F Mechanism - H Type



S2698

### 3.5mm to IDC Mechanism - C Type



S2689

### Speaker Post Mechanisms Pair - H Type - Red & Black



S2710

### RCA To F Mechanism - C Type



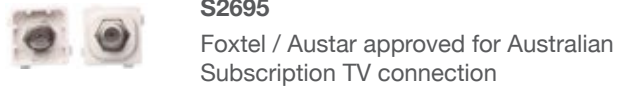
S2694

### RCA Audio IDC 2pcs Pack - H Type



S2766

### F To F Mechanism - C Type



S2695

Foxtel / Austar approved for Australian Subscription TV connection

### RCA Composite IDC/F 3pcs Pack - H Type



S2768

### PAL To F Mechanism - C Type



S2697

### RCA Composite F 3pcs Pack - H Type



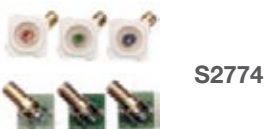
S2770

### RCA Composite F 3pcs Pack - H Type



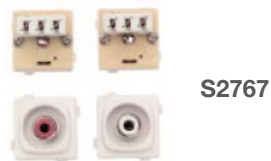
S2709

### RCA Component F 3pcs Pack - H Type



S2774

### RCA Audio IDC 2pcs Pack - C Type



S2767

### RJ Cat6 Mechanism - C Type



S2686

### RCA Composite IDC/F 3pcs Pack - C Type



S2769

## Hills Home Hub Hills Home Hub

### RCA Composite F 3pcs Pack - C Type



S2773

### RCA Component F 3pcs Pack - C Type



S2775

### HPM TYPE



**HPM Flush Surround & 1 Gang Grid Wall Plate**  
S3212



**HPM Flush Surround & 2 Gang Grid Wall Plate**  
S3184



**HPM Flush Surround & 3 Gang Grid Wall Plate**  
S3185



**HPM Flush Surround & 4 Gang Grid Wall Plate**  
S3186



**HPM Flush Surround & 5 Gang Grid Wall Plate**  
S3187



**HPM Flush Surround & 6 Gang Grid Wall Plate**  
S3188



**HPM Shallow Mounting Block 18mm**  
S3189



**HPM Surface Mounting Block 37mm Single Gang**  
S3190



**HPM Blank XL Utility Plate**  
S3191

### CLIPSAL TYPE



**Clipsal Surround 2 Gang Vertical 2000 Series**  
S3192



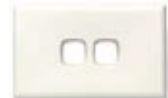
**Clipsal Surround 3 Gang Vertical 2000 Series**  
S3193



**Clipsal Surround 4 Gang Vertical 2000 Series**  
S3194



**Clipsal Blank Plate 2000 Series**  
S3195



**Clipsal 1 Gang Plate & Grid 2000 Series**  
S3196



**Clipsal 2 Gang Plate & Grid 2000 Series**  
S3197



**Clipsal 3 Gang Plate & Grid 2000 Series**  
S3198



**Clipsal 4 Gang Plate & Grid 2000 Series**  
S3199



**Clipsal 4 Gang Plate & Grid 2000 Series**  
S3200

# Hills Home Hub

## Hills Home Hub Hills Home Hub



**Clipsal 6 Gang Plate & Grid 2000 Series**  
S3201



**Clipsal Standard Mounting Block Single Gang**  
S3202



**Clipsal Mounting Flange Standard Size - Deep Mont**  
S3203



**Clipsal Mounting Wall Board - Single Gang**  
S3204



**Clipsal Metal Mounting Bracket & Sliding Nut**  
S3205



**2.1mm DC Connection Lead 1.2m for HPS25/60W Power Supply**  
S3413

**2.5mm DC Connection Lead 1.2m for HPS25/60W Power Supply**  
S3412



**HPS25W 5.08mm Plug + 800mm Connection Lead for 18V AC**  
S3414



### Hills Home Hub 8" Circular Ceiling Speaker Pair

Nominal power: 100W; Max. power: 200W  
Mounting depth of 9.6cm  
Frequency response: 50Hz~20KHz +- 4KHz  
Cone material: Kevlar  
S2333



### Hills Home Hub 8" Rectangle Wall/Ceiling Speaker Pair

Nominal power: 60W; Max. power: 120W  
Mounting depth of 6.2cm  
Frequency response: 55Hz~20KHz +- 4KHz  
Cone material: Kevlar  
S2331



### Hills Home Hub 6.5" Rectangle Wall/Ceiling Speaker Pair

Nominal power: 60W; Max. power: 120W  
Mounting depth of 7.75cm  
Frequency response: 55Hz~20KHz +- 4KHz  
Cone material: Kevlar  
S2330

## Speaker Single



### Hills Home Hub 5" Rectangle Centre Speaker

Nominal power: 80W; Max. power: 160W  
Mounting depth of 6.6cm  
Frequency response: 605Hz~20KHz +- 4KHz  
Efficiency: 87 dB +- 2 dB  
Cone material: Kevlar  
S2747



### Hills Home Hub 5" Indoor / Outdoor Speaker

Pair, Tweeter: 1.9cm titanium hard dome in swivel Mount  
S2505



## Hills Home Hub Hills Home Hub

### Executive Four Room Music Distribution System with Clipsal Source Plate

**S5443 including:**

- 4 x S2330
- Hills Home Hub 6.5" Rectangle Wall/  
Ceiling Speaker Pair
- 4 x S4730
- Music Room Manager
- 1 x S4731
- Multi Source Music Hub - 8 Locations
- 1 x S2121
- Hills Home Hub 60W Audio Power  
Supply
- 1 x S3472
- Kit 4 Way Source 3.5mm to IDC  
Clipsal Type



### Premier Four Room Music Distribution System with HPM Source Plate

**S5478 including:**

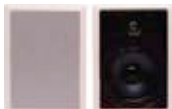
- 4 x S2333
- Hills Home Hub 8" Circular Ceiling  
Speaker Pair
- 4 x S4730
- Music Room Manager
- 1 x S4731
- Multi Source Music Hub - 8 Locations
- 1 x S2121
- Hills Home Hub 60W Audio Power  
Supply
- 1 x S3473
- Kit 4 Way Source 3.5mm to IDC  
HPM Type



### Executive Four Room Music Distribution System with HPM Source Plate

**S5476 including:**

- 4 x S2330
- Hills Home Hub 6.5" Rectangle Wall/  
Ceiling Speaker Pair
- 4 x S4730
- Music Room Manager
- 1 x S4731
- Multi Source Music Hub - 8 Locations
- 1 x S2121
- Hills Home Hub 60W Audio Power  
Supply
- 1 x S3473
- Kit 4 Way Source 3.5mm to IDC  
HPM Type



### Executive Six Room Music Distribution System with Clipsal Source Plate

**S5479 including:**

- 6 x S2330
- Hills Home Hub 6.5" Rectangle Wall/  
Ceiling Speaker Pair
- 6 x S4730
- Music Room Manager
- 1 x S4731
- Multi Source Music Hub - 8 Locations
- 1 x S2121
- Hills Home Hub 60W Audio Power  
Supply
- 1 x S3472
- Kit 4 Way Source 3.5mm to IDC  
HPM Type



### Premier Four Room Music Distribution System with Clipsal Source Plate

**S5477 including:**

- 4 x S2333
- Hills Home Hub 8" Circular Ceiling  
Speaker Pair
- 4 x S4730
- Music Room Manager
- 1 x S4731
- Multi Source Music Hub - 8 Locations
- 1 x S2121
- Hills Home Hub 60W Audio Power  
Supply
- 1 x S3472
- Kit 4 Way Source 3.5mm to IDC  
Clipsal Type



### Executive Six Room Music Distribution System with HPM Source Plate

**S5480 including:**

- 6 x S2333
- Hills Home Hub 8" Circular Ceiling  
Speaker Pair
- 6 x S4730
- Music Room Manager
- 1 x S4731
- Multi Source Music Hub - 8 Locations
- 1 x S2121
- Hills Home Hub 60W Audio Power  
Supply
- 1 x S3473
- Kit 4 Way Source 3.5mm to IDC



# Hills Home Hub

## Hills Home Hub Home Automation

### 6 Way Distribution Splitter Home Automation



FC658138D

### 4 Channel Modulator (Pal) Home Automation



FC658190

#### Features

- Inputs for free to air, CATV modulators and security cameras
- Ideal for use with Hills 4 channel modulator
- Low cost TV distribution system
- Infra red remote control return path
- Digital TV compatible
- F connectors
- Fully shielded housing
- Easy installation

#### Specifications

VHF Freq Range (MHz)	40 - 230
VHF Gain (dB)	12 (ant) / 9 (CATV)
UHF Freq Range (MHz)	520 - 860
UHF Gain (dB)	12 (ant) / 9 (CATV)
Max Output_(DIN45004B) (dBuV)	100
No of_Outputs	6
Connectors	F type
Shielding	No
Power Injector	Not included
Power Supply	12VDC, 500mA

#### Features

- Low cost PAL TV modulation
- Frequency agile, fully programmable output
- Ideal for use with VCRs, DVD players and security cameras etc.
- 4 Remote control repeater outputs
- Includes feedback path for optional Infra-red Remote Control Signals
- F connector for TV signal
- RCA Connectors for audio and video signals
- Fully shielded housing
- Easy installation and programming

#### Specifications

Frequency Range	520MHz - 820MHz (CH27 - CH69), each channel independently programmable
Output Level	75dB $\mu$ V
Input/Output Impedance	75 $\Omega$
Return Loss	>15dB typ.
Power	12V / 500mA Plug Pack

# TV Channel Plan

TV Channel Plan .....	140
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# TV Channel Plan

## Australian TV Channel Plan Pal B/B

Channel No	Analogue Frequency	Band	Comment	Digital Frequency	Channel No	Analogue Frequency	Band	Comment	Digital Frequency
0	46.25	Band 1			S31	373.25	Hyper Band		375.5
1	57.25	Band 1			S32	380.25	Hyper Band		382.5
2	64.25	Band 1			S33	387.25	Hyper Band		389.5
2a	71.25	Band 1			S34	394.25	Hyper Band		396.5
2b	78.25	Band 1			S35	401.25	Hyper Band		403.5
3	86.25	Band 2			S36	408.25	Hyper Band		410.5
4	95.25	Band 2			S37	415.25	Hyper Band		417.5
5	102.25	Band 2			S38	422.25	Hyper Band		424.5
5A	138.25	Mid Band			S39	429.25	Hyper Band		431.5
S6	140.25	Mid Band			S40	436.25	Hyper Band		438.5
S7	147.25	Mid Band			S41	443.25	Hyper Band		445.5
S8	154.25	Mid Band			S42	450.25	Hyper Band		452.5
S9	161.25	Mid Band			S43	457.25	Hyper Band		459.5
S10	168.25	Mid Band			S44	464.25	Hyper Band		466.5
6	175.25	Band III	Block A	177.5	S45	471.25	Hyper Band		473.5
7	182.25	Band III	Block A	184.5	21	478.25	Band 4		480.5
8	189.25	Band III	Block A	191.5	22	485.25	Band 4		487.5
9	196.25	Band III	Digital Radio	198.5	23	492.25	Band 4		494.5
9a	203.25	Band III	DAB+	205.5	24	499.25	Band 4		501.5
10	209.25	Band III	Block A	212.5	25	506.25	Band 4		508.5
11	216.25	Band III	Block A	219.5	26	513.25	Band 4		515.5
12	224.25	Band III	Block A	226.5	27	520.25	Band 4		522.5
S11	231.25	Hyper Band		233.5	28	527.25	Band 4	Block B	529.5
S12	238.25	Hyper Band		240.5	29	534.25	Band 4	Block B	536.5
S13	245.25	Hyper Band		247.5	30	541.25	Band 4	Block B	543.5
S14	252.25	Hyper Band		254.5	31	548.25	Band 4	Block B	550.5
S15	259.25	Hyper Band		261.5	32	555.25	Band 4	Block B	557.5
S16	266.25	Hyper Band		268.5	33	562.25	Band 4	Block B	564.5
S17	273.25	Hyper Band		275.5	34	569.25	Band 4	Block C	571.5
S18	280.25	Hyper Band		282.5	35	576.25	Band 4	Block C	578.5
S19	287.25	Hyper Band		289.5	36	583.25	Band 4	Block C	585.5
S20	294.25	Hyper Band		296.5	37	590.25	Band 4	Block C	592.5
S21	303.25	Hyper Band		305.5	38	597.25	Band 4	Block C	599.5
S22	310.25	Hyper Band		312.5	39	604.25	Band 4	Block C	606.5
S23	317.25	Hyper Band		319.5	40	611.25	Band 5	Block D	613.5
S24	324.25	Hyper Band		326.5	41	618.25	Band 5	Block D	620.5
S25	331.25	Hyper Band		333.5	42	625.25	Band 5	Block D	627.5
S26	338.25	Hyper Band		340.5	43	632.25	Band 5	Block D	634.5
S27	345.25	Hyper Band		347.5	44	639.25	Band 5	Block D	641.5
S28	352.25	Hyper Band		354.5	45	646.25	Band 5	Block D	648.5
S29	359.25	Hyper Band		361.5	46	653.25	Band 5	Block E	655.5
S30	366.25	Hyper Band		368.5	47	660.25	Band 5	Block E	662.5

## Australian TV Channel Plan Pal B/B

Channel No	Analogue Frequency	Band	Comment	Digital Frequency
48	667.25	Band 5	Block E	669.5
49	674.25	Band 5	Block E	676.5
50	681.25	Band 5	Block E	683.5
51	688.25	Band 5	Block E	690.5
52	695.25	Band 5	LTE	697.5
53	702.25	Band 5	LTE	704.5
54	709.25	Band 5	LTE	711.5
55	716.25	Band 5	LTE	718.5
56	723.25	Band 5	LTE	725.5
57	730.25	Band 5	LTE	732.5
58	737.25	Band 5	LTE	739.5
59	744.25	Band 5	LTE	746.5
60	751.25	Band 5	LTE	753.5
61	758.25	Band 5	LTE	760.5
62	765.25	Band 5	LTE	767.5
63	772.25	Band 5	LTE	774.5
64	779.25	Band 5	LTE	781.5
65	786.25	Band 5	LTE	788.5
66	793.25	Band 5	LTE	795.5
67	800.25	Band 5	LTE	802.5
68	807.25	Band 5	LTE	809.5
69	814.25	Band 5	LTE	816.5
70	821.25	Band 5	LTE	823.5
71	828.25	Band 5	LTE	830.5
72	835.25	Band 5	LTE	837.5
73	842.25	Band 5	LTE	844.5
74	849.25	Band 5	LTE	851.5
75	856.25	Band 5	LTE	858.5

Band 1
Band 2
Mid Band
Band III
Hyper Band
Band 4
Band 5







Hills Antenna & TV Systems



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