



Installer's Guide

Triax UK Ltd
Abergorki Industrial Estate,
Tregorhy, Rhondda Cynon Taff,
South Wales CF42 6DL

T: 0845 601 0578
F: 0845 601 1023
sales@triax.co.uk
www.triax.co.uk

Issue 5

Simply **more**
- more simply



Simply **more**
- more simply





Introduction

We're pleased to welcome you to the fifth edition of the Triax Installer's Guide. Packed with details of our extensive range, it's designed to provide you with a quick and convenient source of reference.

Triax UK is a subsidiary of the Danish parent company Triax A/S, employing more than 470 people within the group. We are a leading supplier of TV distribution systems with over 50 years experience in developing solutions for the reception, distribution and processing of TV signals.

Our product range is comprehensive, easy to use and install. By understanding your requirements we aim to provide the ideal solution. In addition, Triax has experienced, service oriented staff who are available to offer professional supplier and technical assistance.

Thank you for your continued support and we look forward to working together for many years to come.

Peter K Poulsen
Managing Director



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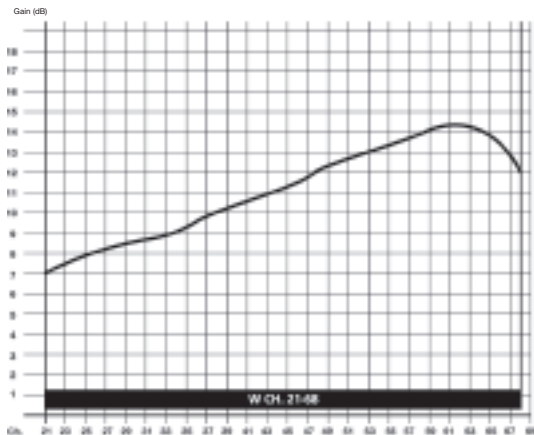
Detailed specification sheets available on request or see www.comcast.com

Aerials

Unix 32



32 Elements
 12.5 dB Gain
 >24dB Front/Back
 ±20° Beamwidth



Group	W
Part No.	108794
Windload (N)	58
Weight (Kg)	1.45
Size (mm)	791 x 500

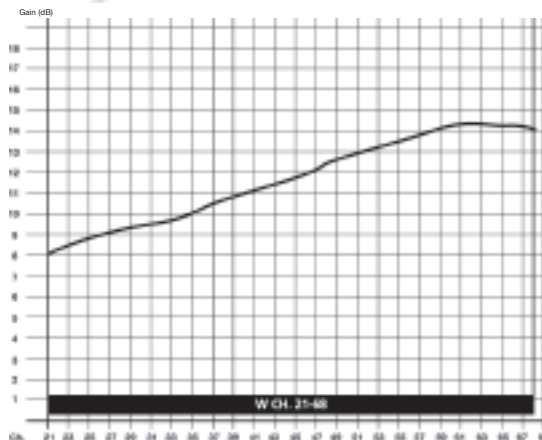
Also available in scantainer of 75, individually bagged aerials.
 Part No. 108798

Aerials

Unix 44



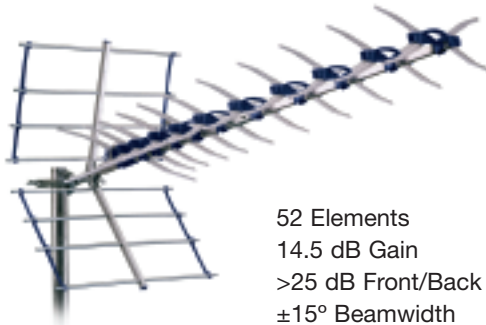
44 Elements
 13.5 dB Gain
 >20dB Front/Back
 ±18° Beamwidth



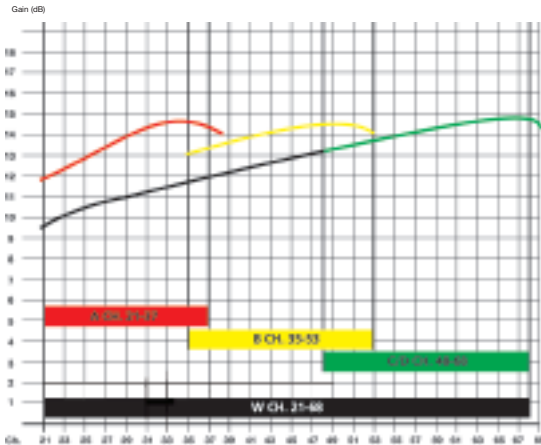
Group	W
Part No.	108795
Windload (N)	96
Weight (Kg)	1.05
Size (mm)	1100 x 500

Aerials

Unix 52



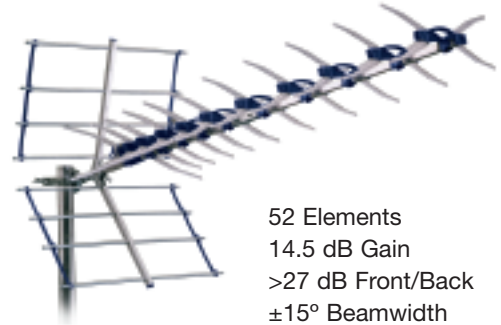
52 Elements
14.5 dB Gain
>25 dB Front/Back
±15° Beamwidth



Group	A	B
Part No.	108788	108789
Windload (N)	96	96
Weight (Kg)	1.72	1.68
Size (mm)	1512 x 500	1410 x 500

Aerials

Unix 52C/D-W



52 Elements
14.5 dB Gain
>27 dB Front/Back
±15° Beamwidth

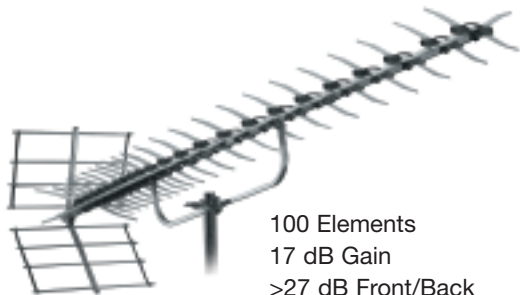


Group	C/D - W
Part No.	108790
Windload (N)	96
Weight (Kg)	1.63
Size (mm)	1297 x 500

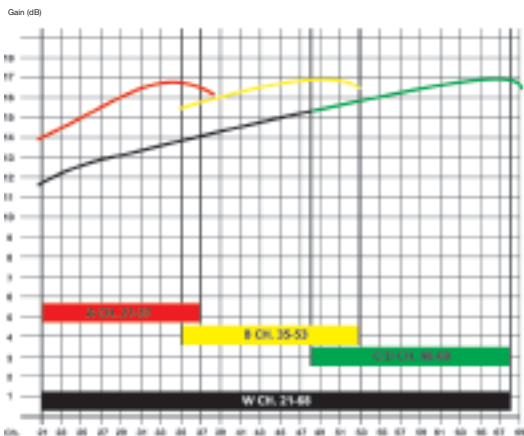
Also available in scantainer of 50, individually bagged aerials.
Part No. 108799

Aerials

Unix 100



100 Elements
17 dB Gain
>27 dB Front/Back
±11° Beamwidth



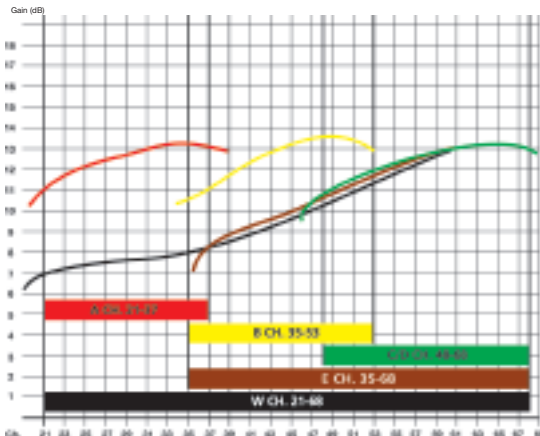
Group	A	B	C/D - W
Part No.	108791	108792	108793
Windload (N)	176	152	152
Weight (Kg)	3.19	2.50	2.46
Size (mm)	2887 x 500	2332 x 50	2257 x 50

Aerials

SuperGain 14



14 Elements
13.5 dB Gain
>25 dB Front/Back
±21° Beamwidth



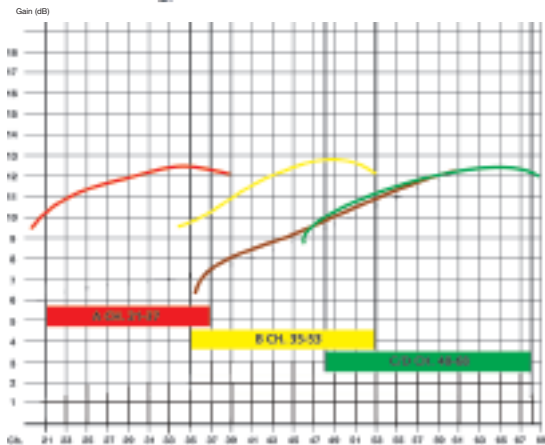
Group	A	B	C/D	E	W
Part No.	108342	108344	108345	108346	108343
Windload (N)	58	58	58	58	54
Weight (Kg)	0.98	0.93	0.87	0.82	0.75
Size (mm)	1182 x 420	1122 x 420	1070 x 420	1018 x 420	975 x 420

Aerials

SuperGain 18



18 Elements
14.5 dB Gain
>25 dB Front/Back
±18° Beamwidth



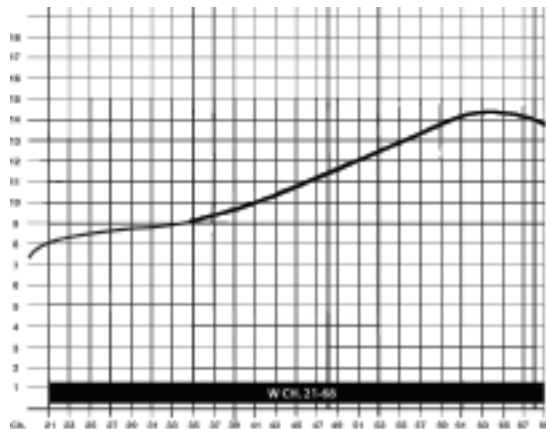
Group	A	B	C/D	E
Part No.	108362	108364	108365	108366
Windload (N)	65	65	65	65
Weight (Kg)	1.62	1.55	1.49	1.43
Size (mm)	1836	1732	1635	1537
	x 420	x 420	x 420	x 420

Aerials

SuperGain 18W



18 Elements
14.5 dB Gain
>25 dB Front/Back
±18° Beamwidth



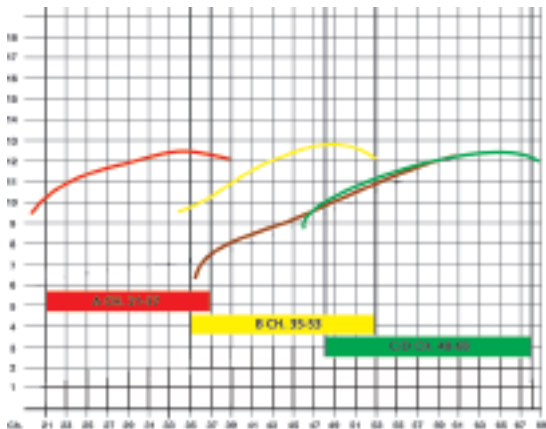
Group	W
Part No.	108363
Windload (N)	59
Weight (Kg)	1.37
Size (mm)	1446
	x 420

Aerials

Yagi 10



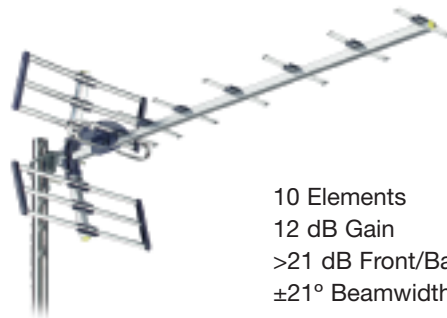
10 Elements
12.5 dB Gain
>21 dB Front/Back
±23° Beamwidth



Group	A	B	C/D	W
Part No.	108312	108314	108315	108313
Windload (N)	26	26	26	22
Weight (Kg)	0.85	0.80	0.74	0.65
Size (mm)	1182	1122	1070	975
	x 350	x 350	x 350	x 350

Aerials

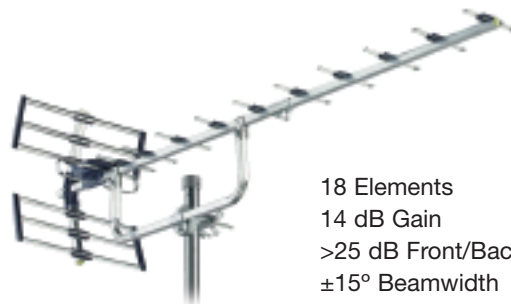
QR 10



10 Elements
12 dB Gain
>21 dB Front/Back
±21° Beamwidth

Group	A	B	C/D	W
Part No.	108040	108041	108042	108044
Size (mm)	1139	961	865	865

QR 18

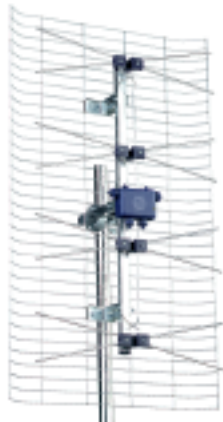


18 Elements
14 dB Gain
>25 dB Front/Back
±15° Beamwidth

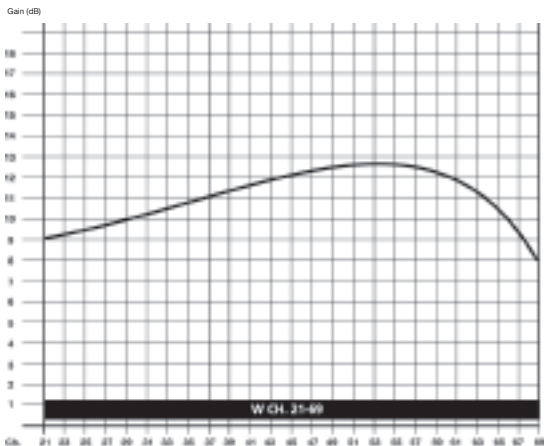
Group	A	B	C/D	W
Part No.	108045	108046	108047	108049
Size (mm)	1720	1434	1235	1235

Aerials

BB Grid



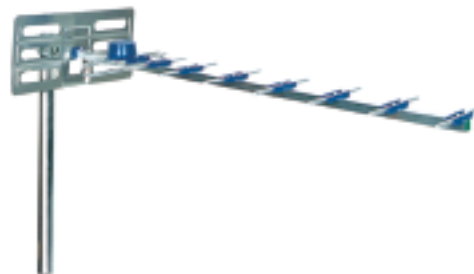
16 Elements
 12dB Gain
 >28dB Front/Back
 Beamwidth
 ±34° Horizontal
 ±20° Vertical



Group	W
Part No.	108012
Windload (N)	72
Weight (Kg)	2.2
Size (mm)	840 x 480

Aerials

Contract Aerials



10 Element

Group		Part No.
A	CH21-37	108020
B	CH35-53	108021
C/D	CH48-68	108022
W	CH21-69	108024

14 Element

Group		Part No.
A	CH21-37	108025
B	CH35-53	108026
C/D	CH48-68	108027
W	CH21-69	108029

18 Element

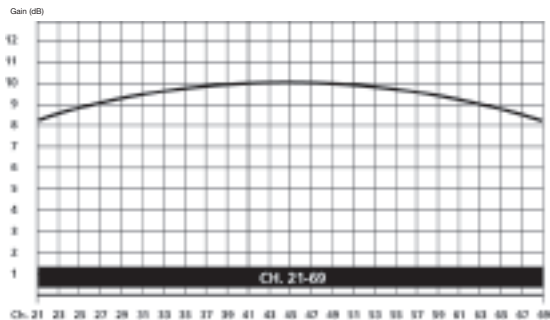
Group		Part No.
A	CH21-37	108030
B	CH35-53	108031
C/D	CH48-68	108032
W	CH21-69	108034

Aerials

Log-periodic VHF/UHF



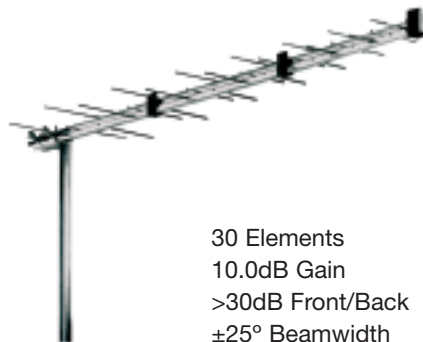
VHF/UHF
 32 Elements
 Typical Gain: 8.0dB VHF/9.0dB UHF
 >25dB Front/Back
 ±25° VHF Beamwidth
 ±20° UHF Beamwidth



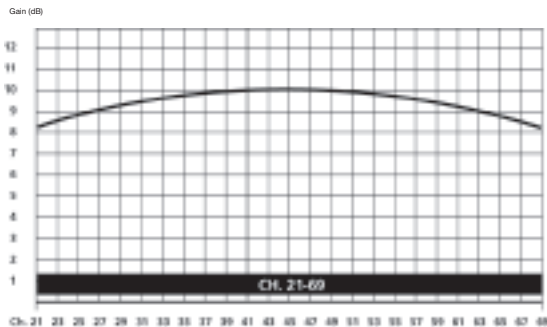
Channels	5-12/21-69
Band	VHF/UHF
Part No.	108679
Windload (N)	39
Weight (Kg)	0.70
Size (mm)	1230 x 850

Aerials

Log-periodic UHF



30 Elements
 10.0dB Gain
 >30dB Front/Back
 ±25° Beamwidth



Band	UHF
Part No.	108680
Windload (N)	30
Weight (Kg)	0.60
Size (mm)	1210 x 320

Aerials

VHF Band III Aerials



4 Element

Part No. 104663
 Channels 5 - 12
 5dB Gain
 >14dB Front/Back
 852 mm x 800 mm
 34 Windload (N)
 0.7 Kg Weight
 ±34° Beamwidth

6 Element

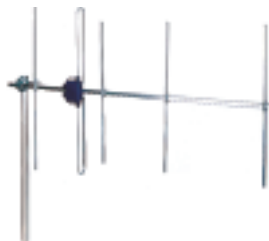
Part No. 104665
 Channels 5 - 12
 7.5dB Gain
 >16dB Front/Back
 1410 mm x 800 mm
 48 Windload (N)
 0.9 Kg Weight
 ±26° Beamwidth

10 Element

Part No. 104579
 Channels 5 - 12
 9.5dB Gain
 >22dB Front/Back
 1735 mm x 880 mm
 78 Windload (N)
 1.3 Kg Weight
 ±23° Beamwidth

Aerials

DAB 5 Element



5 Elements

8.0dBi Gain
 >12dB Front/Back
 ±33-43° Beamwidth

Band 217-240MHz
Part No. 100171
Windload (N) 43
Weight (Kg) 0.75
Size (mm) 1095 x 705

DIGITAL AUDIO
 BROADCAST

DAB Omni



1 Element

2.2 dBi Gain
 ±180° Beamwidth

Band 217-240MHz
Part No. 100170
Windload (N) 19.7
Weight (Kg) 0.45
Size (mm) 400 x 625

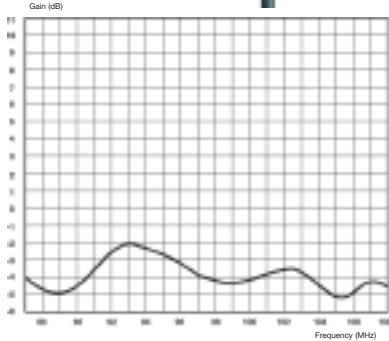
DIGITAL AUDIO
 BROADCAST

Aerials

FM Omni

Part No. 100190

87-108 MHz
 0dB Gain
 ±180° Beamwidth
 >10dB Return Loss
 75 Balun
 16 Windload (N)

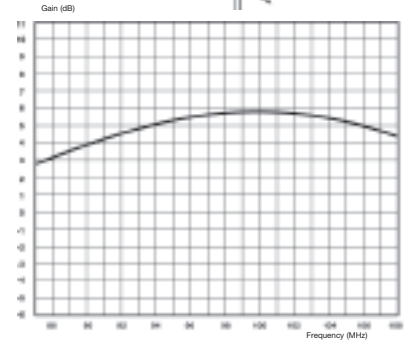


Aerials

FM 3 Element

Part No. 100062

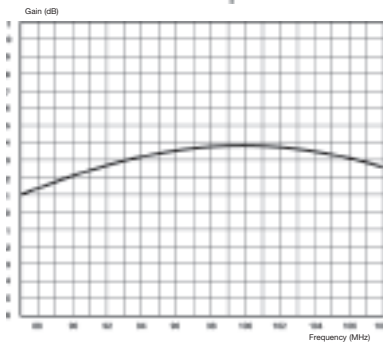
87-108 MHz
 6.0dB Gain
 16dB Front/Back
 ±35° Beamwidth
 >15dB Return Loss
 75 Balun
 56 Windload (N)



FM 2 Element

Part No. 100161

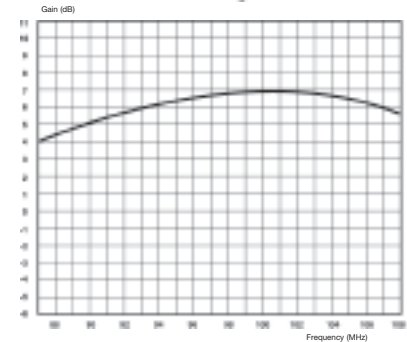
87-108 MHz
 4dB Gain
 10dB Front/Back
 ±37° Beamwidth
 >15dB Return Loss
 75 Balun
 40 Windload (N)



FM 4 Element

Part No. 100063

87-108 MHz
 7dB Gain
 18dB Front/Back
 ±32° Beamwidth
 >15dB Return Loss
 75 Balun
 64 Windload (N)



Aerials

FM 5 Element

Part No. 100064

87-108 MHz

8dB Gain

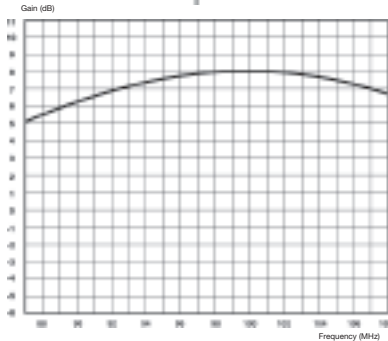
20dB Front/Back

$\pm 27^\circ$ Beamwidth

>15dB Return Loss

75 Balun

80 Windload (N)



FM 8-S Element

Part No. 100197

87-108 MHz

9.5dB Gain

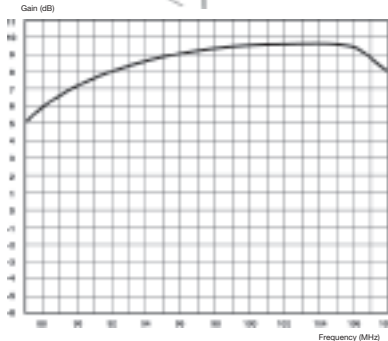
24dB Front/Back

$\pm 21^\circ$ Beamwidth

>15dB Return Loss

75 Balun

128 Windload (N)



Aerials

UFO Mobile



1 Element

Part No. 109680

Frequency 47-860MHz

Gain 28dB

Beamwidth 360°

Windload (N) 5.5

Weight (Kg) 0.25

Size (mm) 325 x 255 x 65

Part No. 109680

consists of:

1 x UFO Mobile antenna

1 x power inserter

1 x Universal bracket

2 x F-Connector

Accessories

Power Boat Bracket/Deck Mount- Part No. 133220

Mast Bracket - Part No. 133223

Masthead Amplifiers

TA Range

- Masthead Amplifiers with Saddle and Clamp connections
- Weatherproof housing
- Fully screened enclosure
- Unique mounting system
- Flexible 12-24 volt powering
- High output capability with low noise



Part No.	Product	Input Range (Channel)	Gain (dB)	Max Output (dBuV)	Noise (dB)	Current (mA)	Through Power	No Inputs	No Outputs
333400	TA13W	21-69	13	105	1.9	15	No	1	1
333430	TA 13A	21-37	13	105	1.9	15	No	1	1
333433	TA 13B	35-53	13	105	1.9	15	No	1	1
333436	TA 13C/D	48-69	13	105	1.9	15	No	1	1
333439	TA 13E	35-69	13	105	1.9	15	No	1	1
333401	TA25W	21-69	25	105	1.8	30	No	1	1
333431	TA25A	21-37	25	105	1.8	30	No	1	1
333434	TA25B	35-53	25	105	1.8	30	No	1	1
333437	TA25C/D	48-69	25	105	1.8	30	No	1	1
333417	TA21W/3 Way	21-69	1 x 21	1 x 101	1.8	30	Switchable	1	3
		21-69	2 x 17	2 x 97			No		
333501	TA 25W-1W	21-69	25	105	1.8	30	Switchable	2	1
		BI/II/III	-1				Switchable		
333466	TA 24W 24W (Var)	21-69	24	105	2.5	30	Switchable	2	1
		BI/II/III	14-24				Switchable		
333450	TA 24BB Cascade	VHF/UHF	24	105	2.5	30	Switchable	1	1
333402	TA34W	21-69	24-34	105	1.8	40	No	1	1
333432	TA 34A	21-37	24-34	105	1.8	40	No	1	1
333435	TA 34B	35-53	24-34	105	1.8	40	No	1	1
333438	TA 34C/D	48-69	24-34	105	1.8	40	No	1	1
333467	TA 32W 24W	21-69	22-32	105	2.5	40	Switchable	2	1
		BI/II/III	14-24				Switchable		

Masthead Amplifiers

TMA Range

- Masthead Amplifiers with Saddle and Clamp connections
- Weatherproof housing
- Unique mounting system
- Flexible 12-24 volt powering
- High output capability with low noise



Part No.	Product	Input Range (Channel)	Gain (dB)	Max Output (dBuV)	Noise (dB)	Current (mA)	Through Power	No Inputs	No Outputs
333324	TMA 18W-U Masthead Amp	21-69	18	105	3	20	No	1	1
333325	TMA 28W-U Masthead Amp	21-69	28	105	3	30	No	1	1
333326	TMA 12/2-U Masthead Amp	21-69	2x12	2x98	4.5	25	No	1	2
333570	TMA 24W-2W-U	21-69	25	105	3	30	No	2	1
		BI/II/III	-2				No		
333571	TMA 24W-20W-U	21-69	14-24	105	4	30	No	2	1
		BI/II/III	10-20		3		No		

Masthead Amplifiers

Masthead Kits

MFA Range

- F-Connector Masthead Amplifiers
- Weatherproof housing
- Fully screened enclosure
- Unique mounting system
- High output capability with low noise



Model	MFA 606	MFA 608	MFA 615	MFA 625	MFA 322
Part Number	340606	340608	340615	340625	340322
Number of Inputs	1	1	1	1	1
Number of Outputs	4	1	1	1	4
Input Frequency Band	UHF	UHF	UHF	UHF	UHF
Input Channels	21 - 68	21 - 68	21 - 68	21 - 68	21 - 68
Frequency Range (MHz)	470 - 862	470 - 862	470 - 862	470 - 862	470 - 862
Typical Gain (dB)	6	8	15	25	4 x 15
Noise Figure (dB)	2.5	2.5	2.5	2.5	1.8 typ
Max. Output Level (dBuV)*	95	103	105	105	4 x 85
DC power supply	12V/30mA	12V/30mA	12V/30mA	12V/65mA	12V/30mA

* Maximum output level @60dB IMA, EN50083-3

Wolsey Kits

WOLSEY WFA Kits

- F-Connector Masthead Amplifiers & Power Supply
- Weatherproof housing
- Fully screened enclosure



Model	WFA 10	WFA 15	WFA 25	WFAV 25	WFAV425
Part Number	370550	370551	370552	370553	370554
Number of Inputs	1	1	1	1	1
Number of Outputs	1	1	1	1	4
Input Frequency Band	UHF	UHF	UHF	UHF	UHF
Input Channels	21 - 68	21 - 68	21 - 68	21 - 68	21-68
Frequency Range (MHz)	470 - 862	470 - 862	470 - 862	470 - 862	470-862
Typical Gain (dB)	10	15	25	25	4 x (8-25)
Variable Gain	No	No	No	Yes	Yes
Noise Figure (dB)	<2.2	<2.2	<2.2	<2.2	<2.2
Max. Output Level (dBuV)*	94	96	102	102	4 x 85
DC power supply	12V/100mA	12V/100mA	12V/100mA	12V/100mA	12V/100mA

WPF 100/2

Part No	Product				
370103	WPF 100/2				
Connectors	Output	Voltage (V)	Max Current (mA)	Through Loss (dB)	Screened
F	2	12	100	4.5	Yes

* Maximum output level @60dB IMA, EN50083-3

Masthead Amplifiers

Masthead Combiners

Power Supplies

- Saddle and Clamp F-Connector and IEC connector versions
- Screened products within range
- Short circuit protected



P100/2

TP 1285 Range

Part No.	Product	Connectors	Outputs	Voltage (Volts DC)	Max. Current (mA)	Through Loss (dB)	Screened
333522	TP1285	Saddle and Clamp	1	12	85		No
333523	TP1285	Saddle and Clamp	2	12	85	-4.5	No

IFP Range

Part No.	Product	Connectors	Outputs	Voltage (Volts DC)	Max. Current (mA)	Through Loss (dB)	Screened
339551	IFP 551	F Type	1	12	80		Yes
339552	IFP 552	F Type	2	12	80	-4.5	Yes

P100 Range

Part No.	Product	Connectors	Outputs	Voltage (Volts DC)	Max. Current (mA)	Through Loss (dB)	Screened
370100	P100/1	IEC	1	12	100		No
370101	P100/2	IEC	2	12	100	-4.5	No

TMC Range

- Masthead Combiners with Saddle and Clamp connections
- Weatherproof housing
- Unique mounting system
- High out of band rejection
- Excellent isolation
- Switchable through power



Part No.	Product	Input Range (Channel)	Input Range (Group)	Input Range (MHz)	Through Loss (dB)	Rejection (dB)	Through Power
311153	TMC 3739 STP Group Comb.	2-37 39-69	A E	47-606 614-862	<1 <1	>20 >20	Switchable Switchable
311154	TMC 4648 STP Group Comb.	2-46 48-69	AB CD	47-678 686-862	<1 <1	>20 >20	Switchable Switchable
311155	TMC 5355 STP Group Comb.	2-53 55-69	AB CD	47-734 742-862	<1 <1	>20 >20	Switchable Switchable
311157	TMC 5153 STP Group Comb.	2-51 53-69	AB CD	47-718 726-862	<1 <1	>20 >20	Switchable Switchable
311162	TMC 3537 STP Group Comb.	2-35 37-69	A E	47-590 598-862	<1 <1	>20 >20	Switchable Switchable
311164	TMC 3335 STP Group Comb.	2-33 35-69	A E	47-574 582-862	<1 <1	>20 >20	Switchable Switchable
311166	TMC 3941 STP Group Comb.	2-39 41-69	A E	47-622 630-862	<1 <1	>20 >20	Switchable Switchable
311168	TMC 5052 STP Group Comb.	2-50 52-69	AB CD	47-710 718-862	<1 <1	>20 >20	Switchable Switchable
333383	TMC 69 SAT SAT/TV Filter	2-69	FM/TV SAT	47-862 950-2500	<2 <3	>15 >35	Switchable Yes
333582	TMC 1221 STP	2-12 21-69	BI/II/III UHF	47-230 470-862	<1 <1	>20 >20	Switchable Switchable
333482	TMS 3/2 STP	2-12/21-69 2-12/21-69	BI/II/III/UHF BI/II/III/UHF	47-862 47-862	2 x 4	>16	Switchable

Masthead Combiners

MFC Range

- F-Connector Masthead Combiner
- Weatherproof housing
- Inductive and Resistive models
- Fully screened



Part No.	Product	Input Range (Channel)	Input Range (Group)	Input Range (MHz)	Through (dB)	Rejection (dB)	Through Power
340103	MFC 103	2-12	BI/II/III	47-230	1	>10	Switchable on both inputs
		21-69	UHF	470-862	2		
340104	MFC 104		AM/BI/FM BIII UHF	0.15-108 175-230 470-862	1 1.5 2.0	>20	on UHF
340105	MFC 105	2-69	BI/II/III/UHF	47-862	2x4		on both inputs

Masthead Accessories

Part No.	Product	Frequency Range (MHz)	Through Loss(dB)	Rejection <450MHz/>900MHz (dB)
304060	UHF Band Pass Filter (TETRA)	470-862	<=2.5	>10/ >14

Splitters/Combiners

Indoor Range

Indoor Splitters

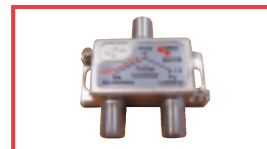
- Metal housing
- I.E.C. connectors



Part No.	Product	Input Range (Group)	Through Loss (dB)	Output Connectors
338365	102FF/M	VHF+UHF/VHF+UHF	3.5/3.5	IEC Female
338366	102MM/F	VHF+UHF/VHF+UHF	3.5/3.5	IEC Male

Indoor Combiners

Part No.	Product
340110	VHF-UHF/Sat Combiner (indoor die-cast housing with F-connectors)



Triax Distribution Amplifiers

Part No.	Model No.	Frequency Range	Gain
333550	TDA 21/1	VHF/UHF	11-21dB
333551	TDA 18/2	VHF/UHF	2 x (8-18dB)

Domestic Distribution

Domestic Distribution Unit DDU

- Domestic Distribution for the home environment
- DDU distributes UHF, Radio, Sky/Sky+ and CCTV to the main TV, plus two outputs for additional Sky receivers
- Controls and distributes main Sky/Sky+ receiver to six additional locations
- Specific DDU Outlet available (code 304115)
- Conforms to the Sky Homes specification



Product code 333112

Apartment Distribution Unit ADU

- A home distribution unit designed for use in apartments fed from an IRS system

Model	Apartment Distribution Unit
Part Number	333113
Number of Inputs	3, (VHF/UHF/SAT I), (VHF/UHF), (SAT II)
Number of Outputs	8 + Downlink

Domestic Distribution

Domestic Distribution Unit DDU

INPUT FREQUENCY RANGE

BI/FM Input	MHz
BIII/DAB Input	47 to 108
UHF2 (CCTV) Input	174 to 230
UHF1 (TV) Input	470 to 862
SAT I...4 (Satellite) Input	470 to 862
Uplink Input	950 to 2300
IR Link (R, TV 1...6)	470 to 862
	5 to 30

OUTPUT FREQUENCY RANGE

Downlink Output	MHz
Uplink Output IR, SAT II	87.5 to 2300
R/TV1...6	5 to 30/950 to 2300
BI/FM/DAB/BIII/UHF/	87.5 to 862
Satellite Outputs (R/TV 7, 8)	47 to 2300

TYPICAL GAIN

SAT I...4, UHF 1, UHF 2 to Downlink	dB
FM, DAB to Downlink	8
FM, DAB to R/TV 1...4	10
FM, DAB to R/TV 5...6	6
Uplink to R/TV 1...8	10
IR Link to Uplink/IR 1...4	6
IR Link to Uplink/IR 5...6	2
	0

SUPPLY / LINE POWER REQUIREMENTS

Supply Voltage, V DC, (from external power supply)	12V/190 mA
Digital Link Power Supply Outputs (R/TV1...6, Overload protected)	9V DC @ 20 mA
Power On LED (Green)	Yes
DC Power bypass, (for LNB) to SAT I...4	Max. 300 mA
Automatic Masthead Line Power facility (Via UHF 1, Overload protected)	12V DC/50 mA

CONNECTORS

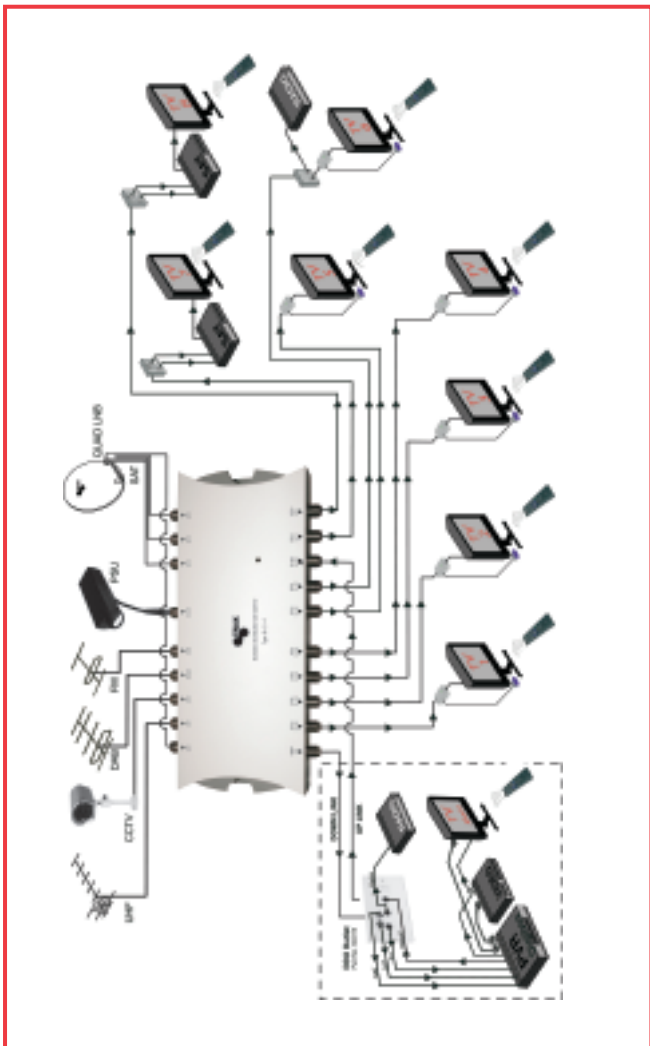
Inputs/Outputs	F Type (female on all ports)
Power Supply input connector	F Type female

MECHANICS

R.F. Screening	Yes
Access to chassis Earth terminal	Yes

Domestic Distribution

Domestic Distribution Unit DDU



Domestic Distribution

Digital Links

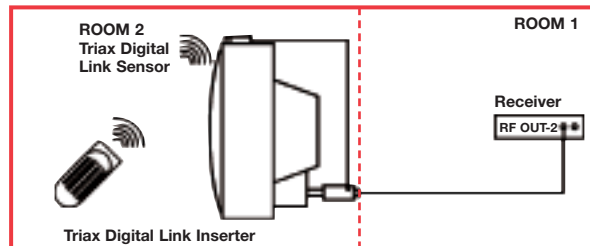
- Silver and anthracite colour styles
- Competitive pricing
- Attractive design
- Easy to install



The Triax Digital Link will allow control of your SKY Digital satellite receiver whilst viewing in other rooms around the home.

The Triax Digital Link is compatible with UK digital satellite receivers with an output marked RF-OUT 2 that provides a second TV output together with a 9 volt DC supply.

Packaging	Retail	Bagged
Part Number: Silver/Blue Lens	370232	370230
Anthracite/Red Lens	370233	370231
Input Signal Frequency	37.9kHz Carrier (Infra Red System)	
Output Signal Frequency	On-Off Keyed 7MHz Carrier	
Line Power Requirement	9V DC @ 10mA	
Infra Red Sensor Lead	0.9m	
Output Connector	IEC Male	
Input Connector	F Female	IEC Female
Operating Temperature	0 to +40°C	
Fly Lead on Output	Yes (160mm)	No



Domestic Distribution

Link Amplifiers

- Amplifiers for use with Sky Digital satellite receivers and Triax Digital Link
- Two and four output versions
- IEC or F connector
- Mains powering option
- Easy to install



Part No.	Product
370400	2-Way, IEC Connector
370401	4-Way, IEC Connector
370402	2-Way, F Connector
370403	4-Way, F Connector

	2 Way Link Amplifier	4 Way Link Amplifier
Number of inputs	1	1
Number of outputs	2	4
Frequency range (MHz)	88 to 862	88 to 862
Typical forward Gain (dB)	8	7
Reverse path frequency range (MHz)	5 to 30	5 to 30
Typical reverse path Gain (dB)	7	6
Maximum output level (dBuV)	94	89
Noise figure (dB)	<5	<5
Connectors (Female on all ports)	IEC or F	IEC or F
IR control capability	Triax Digital Link System	Triax Digital Link System
Power for remote IR receivers, (via outputs)	9V DC at 15mA per outlet	9V DC at 15mA per outlet
Short Circuit Protection on outputs	Yes	Yes
Power on LED indicator	Yes	Yes
Supply (via input)	9V at 75mA max	9V at 75mA max
Mains Power Adaptor input	Yes (3.5mm Jack)	Yes (3.5mm Jack)
Screened	Yes	Yes
Operating temperature range	-10°C to +55°C	-10°C to +55°C
Triax style plastic housing (with clip-on base)	Yes	Yes

Optional mains power supply	Part No.	Description
	370404	Plug-Top 12V DC/100mA

Domestic Distribution

Wolsey Sky Pass Amplifiers

- Distributes to multiple TV's around the home
- Allows control of Sky Digital receivers when used with Triax Digital Links
- 2,4,6 + 8 Way versions
- F connectors
- Mains powered
- Boxed



Part No.	F connectors	334056	334057	334054	334055	334060	334058	334059
Number of inputs		1	2	2	2	1	1	1
Number of outputs		2	4	6	8	4	6	8
Input frequency Range (MHz)								
Wideband		47 - 862				47 - 862	47 - 862	47 - 862
VHF			47 - 230	47 - 230	47 - 230			
UHF			470 - 862	470 - 862	470 - 862			
Output frequency Range (MHz)		47 - 862	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862
Return path Frequency range (MHz)		5 - 30	5 - 30	5 - 30	5 - 30	5 - 30	5 - 30	5 - 30
Typical Gain (dB)								
Wideband		2 x 8				4 x 7.5	6 x 10	8 x 10
VHF		-	4 x 8	6 x 11	8 x 8.5			
UHF		-	4 x 8	6 x 11	8 x 8.5			
Return		2.5	2.5	2.5	2.5	2.5	2.5	2.5
Noise figure (dB)		4	4	5	5	5	5	5
Output level (dBuV) *		92	92	90	90	92	93	93
Power Supply on each output		9V DC/10mA						
Mains Supply		230Vac, ±10%, 50Hz						

* EN 50083-3, 3 Tone Test at -60dB Interference.



Domestic Distribution

Wolsey Set-Back Amplifiers

- Allows distribution to multiple TV's around the home
- 1, 2, 4, 6 and 8 Way versions
- Cost effective
- IEC connectors
- Boxed
- Mains powered



	1-Way	2-Way	4-Way	4-Way (1 input)	6+1 Way	6+1 Way (1 input)	8+1 Way	8+1 Way (1 input)
Part No. IEC Connectors	334031	334032	334034	334035	334036	334043	334038	334044
Number of inputs	1	1	2	1	2	1	2	1
Number of outputs	1	2	4	4	6+1 Full	6+1 Full	8+1 Full	8+1 Full
Input frequency Range (MHz)								
Wideband	47 - 862	47 - 862	-	47 - 862	-	47 - 862	-	47 - 862
VHF	-	-	47 - 230	-	47 - 230	-	47 - 230	-
UHF	-	-	470 - 862	-	470 - 862	-	470 - 862	-
Output frequency range (MHz)	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862
Typical Gain (dB)								
Wideband	20	2 x 17	-	4 x 10	-	6 x 13	-	8 x 13
VHF	-	-	4 x 10	-	6 x 10	-	8 x 10	-
UHF	-	-	4 x 11	-	6 x 11	-	8 x 11	-
Full output	-	-	-	-	1 x 18	1 x 23	1 x 18	1 x 23
Gain control (dB)	10	10	-	10	-	10	-	10
Noise figure (dB)	4	4	5	4	5	5	6	5
Output level (dBuV) *	92	95	83	89	6 x 83 1 x 96	6 x 97 1 x 102	8 x 83 1 x 96	8 x 97 1 x 102
Automatic line power (UHF input)	No	No	12V DC/ 35mA	12V DC/ 35mA	12V DC/ 35mA	12V DC/ 35mA	12V DC/ 35mA	12V DC/ 35mA
Mains Supply	230Vac, ±10%, 50Hz							

Distribution Amplifiers

Distribution Amplifiers

Amethyst

- Digital compatible split band amplifier
- F connectors
- Interstage gain control
- High output
- FM, DAB and UHF inputs
- Auto line power on UHF input
- Test point on output
- Part No. 371000



	Frequency range (MHz)	Gain (dB)	Flatness (dB)	Gain control (dB)	Output level (dBμV)	Noise figure (dB)
Band II	87.5 - 108	43	+/- 0.5	16	116	<4
Band III	174 - 230	41	+/- 1	15	117±2	<5
Band IV/V	470 - 862	40	+/- 0.75	12	118±2	<6

Arm 486

- High output level
- High gain
- Designed for DVB/T reception
- Low noise
- Six separate inputs for BI/III, FM, BIII, UHF (DVB/T), UHF2, UHF3
- Variable attenuator on each input
- DC switch for powering Masthead Amplifiers
- Integral mains power supply
- Die-cast housing
- Part No. 324123



HFA Range

- Wideband, single output, distribution amplifier
- Mains or line powered
- 22, 30 or 40dB gain versions available
- Variable attenuation and tilt
- High output level, (118dBμV)
- Variable, active or passive, return path by means of plug-in modules
- F connectors on input and output ports
- High quality die-cast housing



Typical Specification

	HFA 602	HFA 603	HFA 604
Mains powered Part No.	324602	324603	324604
Line powered Part No.	HFA 622L 324622	HFA 623L 324623	HFA 624L 324624
Input frequency range (MHz)	47-862, 73-862 or 87-862*	47-862, 73-862 or 87-862*	47-862, 73-862 or 87-862*
Forward Gain (dB)	22	30	40
Noise figure (dB)	7.5 Typical	6.5 Typical	6.0 Typical
Attenuation (dB)	0-20	0-20	0-20
Equaliser (dB)	0-18	0-18	0-18
Max. output level (dBμV)**	118	118	118
Return path frequency range (MHz)	5-30/5-55/5-65 (Active or Passive**)	5-30/5-55/5-65 (Active or Passive**)	5-30/5-55/5-65 (Active or Passive**)
Mains voltage (Vac)		230V (±10%)	
Line power (Vac)		24-60	
Power (W)		7.5W	
Connectors		F Type Female on all ports	
Housing		Aluminium IP65	
Dimensions (WxHxD, mm)		145x70x170	

* Depending on module, (47-862MHz if no module fitted)

** Depending on return path module

*** Output level in accordance with DIN 45004B, IMD >60dB

Notes

- 1 Standard line powered HFA Amplifiers are powered via the input.
- 2 Variants with through line power and powering via the output are available on request, please specify your requirements on your order.

Distribution Amplifiers

HFA Accessories

Plug-in modules for HFA series:

Part No.	Description	Frequency Range (MHz)
324681	2 Pieces MD 3047 Filter	47-862 / 5-30
324682	2 Pieces MD 3047T Filter and 20dB Test Point	47-862 / 5-30
324685	2 Pieces MD 5573	73-862 / 5-55
324686	2 Pieces MD 5573T Filter and 20dB Test Point	73-862 / 5-55
324683	2 Pieces MD 6587 Filter	87-862 / 5-65
324684	2 Pieces MD 6587T Filter and 20dB Test Point	87-862 / 5-65
324617	MA 617 Return Path Amplifier 17dB Gain, 20dB attenuator	5-65

Line Power Supply:

Type: TRP
 Part No. 416014
 Input (Vac) 230 ± 10%
 Output (Vac) 48,
 Max current (A) 1.25,
 Dimensions (Ht x Dia), (mm) 60 x 100

Power Inserter (F Connector):

Type	TP1-01
Part No.	347001
Frequency range (MHz)	5-2400
Through loss 5-862MHz (dB)	<=0.5
Through loss 1000-2150MHz (dB)	<=1.5
Max current (A)	2.5
Voltage (Vac)	65

Distribution Amplifiers

IFA Range



- Modern compact housing design
- Click-on wall mounting
- 1 or 2 outputs
- Adjustable gain
- Fully screened
- Mains powered (230Vac ±10%)

Part No.	Product	Input Freq. Range Fwd. (MHz)	Gain Fwd. (dB)	Equaliser (dB)	Return Path (MHz) (Passive)	Noise Fig. (dB)	Output Level (dBμV*)	Outputs (dB)	Connectors
339201	IFA 201	47-862	2-22	No	5-30	<5	116	1	F
339202	IFA 202	47-862	1-20	No	5-30	<5	2 x 112	2	F
339231	IFA 231	47-862	12-32	0-18	5-30	<6.5	116	1	F
339232	IFA 232	47-862	8-28	0-18	5-30	<6.5	2 x 112	2	F

*To DIN45004B, 60dB

Camera Systems

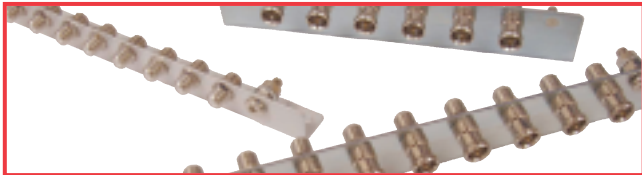
UHF Camera

- Colour camera with built in microphone
- Compact, unobtrusive design
- Modulated UHF output
- Wide angle lens
- High RF output level
- Line powered via coaxial cable
- Weatherproof aluminium housing
- User adjustable UHF output, channels 21 to 68
- Auto Iris, (adjusts to suit lighting conditions)
- Camera kit includes:
 - Camera
 - Power inserter
 - Plug top mains power supply
 - Mounting bracket
- Colour camera - 364008



Multiswitches

Earth Bonding Bars



Part No	Description	Connectors - F Type	Female to Female
153057	4-Way Earth Bonding Bar	Connectors - F Type	Female to Female
153058	5-Way Earth Bonding Bar	Connectors - F Type	Female to Female
153059	8-Way Earth Bonding Bar	Connectors - F Type	Female to Female
370006	4-Way Push-on Earth Bonding Bar*	Connectors - F Type	Female to Push-on Male
370007	5-Way Push-on Earth Bonding Bar*	Connectors - F Type	Female to Push-on Male
370002	6-Way Push-on Earth Bonding Bar*	Connectors - F Type	Female to Push-on Male
370003	8-Way Push-on Earth Bonding Bar*	Connectors - F Type	Female to Push-on Male
370004	12-Way Push-on Earth Bonding Bar*	Connectors - F Type	Female to Push-on Male
370005	16-Way Push-on Earth Bonding Bar*	Connectors - F Type	Female to Push-on Male

*Designed for use with the TMS Multiswitch range with push-on connectors.

Multiswitches

TMS Range



- 5 Inputs, 4 Satellite plus 1 Terrestrial
- 6, 8, 12 and 16 output versions available
- Integral mains power supply
- High specification
- Ideal for small to medium sized IRS systems
- Colour coded inputs to simplify installation
- Push-on, 4-way, Input earth bonding bar supplied
- 9 Input DiSEqC versions also available

Model	TMS 5x6P	TMS 5x8P	TMS 5x12P	TMS 5x16P
Part No.	300336	300338	300332	300337
Inputs	5	5	5	5
Outputs	6	8	12	16
Frequency Range Sat. (MHz)	950-2150	950-2150	950-2150	950-2150
Frequency Range Terr. (MHz)	47-862	47-862	47-862	47-862
Typ. Insertion Loss Sat (dB)	-4	-4	-4	-4
Typ. Insertion Loss Terr. (dB)	0	0	0	0

Model	TMS 9x6P	TMS 9x8P	TMS 9x12P	TMS 9x16P
Part No.	300346	300348	300342	300347
Inputs	9	9	9	9
Outputs	6	8	12	16
Frequency Range Sat. (MHz)	950-2150	950-2150	950-2150	950-2150
Frequency Range Terr. (MHz)	47-862	47-862	47-862	47-862
Typ. Insertion Loss Sat (dB)	0	0	0	0
Typ. Insertion Loss Terr. (dB)	0	0	0	0

Multiswitches

TMS Cascade Range

Multiswitches

Model Part No	TMS 5 x 4 300314	TMS 5 x 6 300316	TMS 5x 8 300318	TMS 5 x 12 300312	TMS 5 x 16 300317
Inputs	5	5	5	5	5
Outputs	4	6	8	12	16
Frequency range Sat. (MHz)	950 - 2150	950 - 2150	950 - 2150	950 - 2150	950 - 2150
Frequency range Terr. (MHz)	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862
Typ. Insertion Loss Sat (dB)	4	4	4	4	4
Typ. Gain Terr (dB)	2	2	2	2	2
Typ. Output level Sat, -35dB IMD ₃ (dBuV)	100	100	100	100	100
Typ. Output level Terr, -60dB IMD ₃ (dBuV)	85	85	85	85	85

Taps / Splitter

Model Part No	TMS 55TAP-12 300313	TMS 55TAP-15 300333	TMS 55TAP-20 300343	TMS 55TAP-24 300353	TMS 510Split 300319
Inputs	5	5	5	5	5
Outputs	5	5	5	5	10
Tap Outputs	5	5	5	5	--
Frequency range Sat. (MHz)	950 - 2150	950 - 2150	950 - 2150	950 - 2150	950 - 2150
Frequency range Terr. (MHz)	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862
Typ. Through Loss Sat (dB)	3	2.5	2.5	2.5	6
Typ. Through Loss Terr (dB)	2	1.5	1.5	1.5	4
Typ. Tap Loss Sat (dB)	12.5	15	20	24	--
Typ. Tap Loss Terr (dB)	12.5	15	20	24	--
Power Pass Satellite	30V/1A	30V/1A	30V/1A	30V/1A	30V/1A
Power Pass Terrestrial	30v/1.5A	30v/1.5A	30v/1.5A	30v/1.5A	30v/1.5A

TMS Cascade 55-PSU

Model Part No	TMS Cascade 55-PSU 300310
Mains Input	180-250Vac 47-63Hz, 1.3A
DC Output	18V DC, 1.9A
DC Output Connector	F Type (Female)
DC Output Lead	F Male to F Male
Wall Mounting Bracket	Supplied

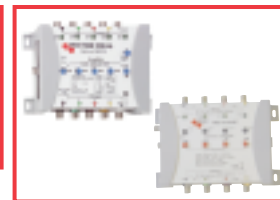


Multiswitches

TMS Cascade Range

TMS Cascade Power Inserter

Model Part No	TMS 55PSI 300308
Inputs (F Female)	5
Outputs (F Female)	5
Frequency range Sat. (MHz)	950 - 2150
Frequency range Terr. (MHz)	47 - 862
Typical Through Loss Sat (dB)	2.5
Typical Through Loss Terr (dB)	1.5
Isolation Out-Out (dB)	35
LNB Power Supply Voltage	H:18V± 0.5V; V:13V± 0.5V
I / P, O / P Return Loss (dB)	11
Terrestrial Power Supply Voltage	14V± 0.5V
Terrestrial Power Supply	14V DC, 1500mA Max
LNB Power Supply	13V/18V, 500mA per leg
DC Input	18V DC, (via F connector Female)



TMS Cascade Amplifiers

Model Part No	TMS 55AMP 300335	TMS 44AMP 300305
Inputs (F Female)	5	4
Outputs (F Female)	5	4
Frequency range Sat. (MHz)	950 - 2150	950-2150
Frequency range Ter. (MHz)	47-862	-
Typical Gain Satellite (dB)	19 - 24	38
Typical Gain Terrestrial (dB)	17	-
Gain Control Satellite (dB)	20	20
Gain Control Terrestrial (dB)	20	-
Slope Satellite (dB)	5 Fixed	0 to 12 (variable)
Slope Terrestrial (dB)	2 - 15 (variable)	-
Typical Output level Sat, -35dB IMD (dBuV)	110	118
Typical Output level Terr, -60dB IMD (dBuV)	105	-
LNB Power Supply	2 x 14V DC / 2 x 18V DC, 400mA Max	
Powering	From system or using external TMS 55PSU	
Current Consumption (mA)	270	300mA, (@ 18V DC)

Modulators

TCM08 / TCM08A

- One mainframe contains up to 8 Modulators
- Suitable for use on SMATV systems
- Double sideband outputs
- Converts an A/V input to a high output RF signal
- Accepts A/V signals from Set-Top boxes, CCTV Cameras etc
- UHF and VHF Modulators available
- Simple programming by means of a DIP switch on each Modulator
- Wall or 19" rack mounting
- Typical applications include hotels, holiday parks etc



Product Details

300110	TCM08 80dBuV Output (8 Channels)
300111	TCM08A 105dBuV Output (8 Channels)
490898	CM02V Multi-standard VHF Modulator Module
490899	CM02U Multi-standard UHF Modulator Module
300743	Scart to Phono cable, (1.5m)

CM01V / CM01U

- Compact design
- Ideal for modulating one channel
- VHF and UHF versions available
- Fully screened
- Three phono input connectors, (left & right audio plus video inputs)
- Loop-through facility for combining with existing VHF/UHF channels
- Output RF channel set by means of DIP switches
- Multi-standard modulated output
- Integral mains power supply



Product Details

300101	CM01V	VHF (175 to 335MHz)
300102	CM01U	UHF (470 to 860MHz)
300743	Scart to phono cable, (1.5m)	

Triax Digital Headend TDH

Product Information



- Digital Headend for Satellite and Terrestrial channels
- Up to 6 modules in one frame
- Simple programming by means of on-screen displays
- Can be programmed via a PC
- Remote access via modem
- High RF output, 105dBuV at 6 channels
- Flexible and cost effective installations by means of Master and Slave modules
- Easy to expand with the use of sub-units
- Can be used to configure systems up to 30 channels
- Can be wall or 19" rack mounted
- Receiver modules are multi-standard



Product Information

Module Type

Module Type	Product no.	Description
TDH 700 Main Unit	490790	Master Mainframe
TDH 701 Sub Unit	490791	Sub-Mainframe
TDH 702 Master DVB-S mono module CI	490702	Satellite Master Module, CI, VSB, Mono
TDH DVB-S NICAM w. CI 8 MHz	590703	Satellite Master Module, CI, VSB, Nicam
TDH 722 Master DVB-S mono module FTA	490722	Satellite Master Module, FTA, VSB, Mono
TDH DVB-S NICAM FTA 8MHz	590723	Satellite Master Module, FTA, VSB, Nicam
TDH 704 Slave module w. mono	490704	Slave Module, VSB, Mono
DVB-S&T Slave module NICAM 8 MHz	590705	Slave Module, VSB, Nicam, (Sat + Terrestrial)
TDH 712 Master DVB-T mono module CI	490712	Terrestrial Master Module, CI, VSB, Mono
TDH DVB-T NICAM w. CI 8 MHz	590713	Terrestrial Master Module, CI, VSB, Nicam
TDH 714 Master DVB-T mono module FTA	490714	Terrestrial Master Module, FTA, VSB, Mono
TDH DVB-T NICAM FTA 8 MHz	590715	Terrestrial Master Module, FTA, VSB, Nicam
TDH 725 VSB mono modulator AV to PAL 8MHz NICAM	490725 590726	Modulator Module, VSB, Mono Modulator Module, VSB, Nicam

TDH 737 FM DVB-S/FM FTA	490737	Satellite to FM Module, FTA
TDH 738 FM DVB-S/FM CI	490738	Satellite to FM Module, CI
TDH 739 FM DVB slave modulator	490739	FM Slave Modulator Module
TDH 736 FM modulator	490736	AV to FM Modulator Module
TDH 772 FM amplifier	490772	FM Amplifier Module
TDH 776 Converter Module	490776	Analogue VHF/UHF to VHF/UHF Converter Module
TDH stand-alone version		
TDH 700 Stand-alone controller	301700	Stand alone controller Module
TDH 702 Master DVB-S mono module CI	301702	Stand alone Satellite Module, CI, VSB, Mono
TDH DVB-S NICAM w. CI 8 MHz	304703	Stand alone Satellite Module, CI, VSB, Nicam
TDH 722 Master DVB-S mono module FTA	301722	Stand alone Satellite Module, FTA, VSB, Mono
TDH DVB-S NICAM FTA 8MHz Stand-alone	304723	Stand alone Satellite Module, FTA, VSB, Nicam
TDH 712 Master DVB-T mono module CI	301712	Stand alone Terrestrial Module, CI, VSB, Mono
TDH DVB-T NICAM w. CI 8 MHz	304713	Stand alone Terrestrial Module, CI, VSB, Nicam
TDH 714 Master DVB-T mono module FTA	301714	Stand alone Terrestrial Module, FTA, VSB, Mono
TDH DVB-T NICAM FTA 8 MHz	304715	Stand alone Terrestrial Module, FTA, VSB, Nicam
TDH 725 VSB mono modulator AV to PAL 8MHz NICAM	301725 304726	Stand alone Modulator Module, VSB, Mono Stand alone Modulator Module, VSB, Nicam
TDH 737 FM DVB-S/FM FTA	301737	Stand alone Satellite to FM Module, FTA
TDH 738 FM DVB-S/FM CI	301738	Stand alone Satellite to FM Module, CI
TDH 739 FM DVB slave modulator	301739	Stand alone FM Slave Modulator Module
TDH 736 FM modulator	301736	Stand alone AV to FM Modulator Module

Taps/Splitters

F Type Tap / Splitter Range

- High specification
- Frequency range 5 to 2400 MHz
- F Connectors on all ports
- Through power, input to output on Taps
- Through power outputs to inputs on splitters
- Zinc die-cast housing
- High screening factor



Splitter Range

Part No.	Model	Splitter Loss @1000MHz (dB)	Splitter Loss @2150MHz (dB)
348002	STS 2	4.7	6.5
348003	STS 3	7.7	10.7
348004	STS 4	8.2	10.9
348006	STS 6	11.7	16.7
348008	STS 8	12.2	18.0

Tap Range

Part No.	Model	Insertion/Tap Loss @1000MHz (dB)	Insertion/Tap Loss @2150MHz (dB)
348108	STT 1-8	2.2/8.0	4.7/8.0
348110	STT 1-10	1.9/10.0	3.2/10.0
348112	STT 1-12	1.7/12.0	2.7/12.0
348115	STT 1-15	1.2/15.0	2.2/15.0
348120	STT 1-20	1.2/20.0	2.2/20.0
348125	STT 1-25	1.2/25.0	2.2/25.0
348210	STT 2-10	3.2/10.5	4.7/10.5
348212	STT 2-12	2.7/12.0	4.2/12.0
348215	STT 2-15	2.7/15.0	4.2/15.0
348220	STT 2-20	1.7/20.0	3.2/20.0
348225	STT 2-25	1.7/25.0	2.7/25.0
348230	STT 2-30	1.7/30.0	2.7/30.0
348410	STT 4-10	4.7/11.5	6.2/13.0
348412	STT 4-12	4.7/12.0	6.2/13.0
348415	STT 4-15	3.2/15.0	5.2/15.0
348420	STT 4-20	1.7/20.0	3.2/20.5
348425	STT 4-25	1.2/25.0	2.7/25.0
348430	STT 4-30	1.2/30.0	2.7/30.0
348616	STT 6-16	5.0/16.0	7.0/19.0
348620	STT 6-20	3.0/20.5	5.0/21.5
348625	STT 6-25	3.0/25.0	5.0/25.0
348630	STT 6-30	3.0/30.0	5.0/30.0
348816	STT 8-16	5.0/16.0	7.0/19.0
348820	STT 8-20	3.0/20.5	5.0/21.5
348825	STT 8-25	3.0/25.0	5.0/25.0
348830	STT 8-30	3.0/30.0	5.0/30.0

Taps/Splitters

F Type Tap / Splitter Range

- HTS-DC splitter range
- Frequency range 5 to 1000MHz
- Bi-directional power pass to one output
- Fully screened die-cast housing
- F Connectors on all ports

Splitter Range

Part No.	Model	Loss@40MHz (dB)	Loss@862MHz (dB)
347012	HTS2 - DC 2	<3.2	<3.7
347013	HTS3 - DC 3	<5.7	<6.2
347014	HTS4 - DC 4	<6.7	<7.9
347016	HTS6 - DC 6	<9.7	<10.7
347018	HTS8 - DC 8	<10.2	<12.2

Outlet Link

- Provides a neat and simple solution for connecting the TV and return outputs of an outlet where a Sky receiver is not installed
- Designed for use with the Triax Outlets 304109, 304114, 304264, 304265, 304286 and 304287



Part No	Description
304139	Outlet Link

Outlets

Triax Screened Outlet Range



- Comprehensive range for domestic and system applications
- Fully screened
- UK style front plate
- Die-cast housing
- DAB compatible
- SAT II (304114) designed for use on Sky+ installations
- DDU outlet (304115) designed for installations using Domestic Distribution Unit
- Conforms to the criteria as detailed by the Sky Homes specification for an Integrated Reception System
- Range of outlets available specific to Southern Ireland:

Part No.	Description
304130	TV/Radio
304131	TV/Radio/Sat
304132	TV/Radio/Sat/Return
304134	TV/Radio/Sat I/Sat II/Return +1 Telephone Socket

Part No.	Description	Frequency Range (MHz)	Through Loss (dB)	Connector Type	Mechanical Data (mm)
304101	Duplexed (2 Way)	47-68, 254-862 87.5-230	≤1.5 ≤2.5	Terminal & Clamp IEC Male IEC Female	86 x 86 x 31
304102	Triplexed (3 Way)	47-68, 254-862 87.5-230 950-2150	≤2.5 ≤3.0 ≤3.0	Terminal & Clamp IEC Male IEC Female F-Female	86 x 86 x 35
304109	Quad (4 Way)	47-68, 254-862 87.5-230 950-2150	≤2.5 ≤3.0 ≤3.0 ≤2.0	Terminal & Clamp IEC Male IEC Female F-Female F-Female	86 x 86 x 37
304110	Quad (4 Way) +2 Telephone	47-68, 254-862 87.5-230 950-2150	≤2.5 ≤3.0 ≤3.0 ≤2.0	Terminal & Clamp IEC Male IEC Female F-Female F-Female	146 x 86 x 37
304114	Sat II	47-68, 254-862 87.5-230 Sat I 950-2150 Sat II DC-2150	≤3.5 ≤3.0 Sat I ≤ 3.5 Sat II ≤ 3.0 ≤ 1.0	Push Terminal & Clamp IEC Male IEC Female Sat I F-Female Sat II F-Female	146 x 86 x 37
304115	DDU	47-68, 254-862 87.5-230 Sat I 950-2150 Sat II 950-2150 DC-862	≤3.5 ≤3.0 Sat I ≤ 3.5 Sat II ≤ 4.0 ≤ 4.0	Push Terminal & Clamp IEC Male IEC Female Sat I F-Female Sat II F-Female	146 x 86 x 37 1 x UK - BT Style sockets (slave)
304118	Duplexed (2 Way) with DC Pass	DC, 5-68, 254-862 87.5-230	≤1.5 ≤2.5	Terminal & Clamp IEC Male IEC Female	86 x 86 x 31
304122	Single Outlet IEC	DC - 862	0.3 Typ.	Terminal & Clamp IEC Female	86 x 86 x 31
304123	Single Outlet F	DC - 2300	<1.6	Terminal & Clamp F-Female	86 x 86 x 31
304101	Duplexed (2 Way)	47-68, 254-862 87.5-230	≤1.5 ≤2.5	Terminal & Clamp IEC Male IEC Female	86 x 86 x 31
304102	Triplexed (3 Way)	47-68, 254-862 87.5-230 950-2150	≤2.5 ≤3.0 ≤3.0	Terminal & Clamp IEC Male IEC Female F-Female	86 x 86 x 35
304109	Quad (4 Way)	47-68, 254-862 87.5-230 950-2150	≤2.5 ≤3.0 ≤3.0 ≤2.0	Terminal & Clamp IEC Male IEC Female F-Female F-Female	86 x 86 x 37
304110	Quad (4 Way) +2 Telephone	47-68, 254-862 87.5-230 950-2150	≤2.5 ≤3.0 ≤3.0 ≤2.0	Terminal & Clamp IEC Male IEC Female F-Female F-Female	146 x 86 x 37
304114	Sat II	47-68, 254-862 87.5-230 Sat I 950-2150 Sat II DC-2150	≤3.5 ≤3.0 Sat I ≤ 3.5 Sat II ≤ 3.0 ≤ 1.0	Push Terminal & Clamp IEC Male IEC Female Sat I F-Female Sat II F-Female	146 x 86 x 37
304115	DDU	47-68, 254-862 87.5-230 Sat I 950-2150 Sat II 950-2150 DC-862	≤3.5 ≤3.0 Sat I ≤ 3.5 Sat II ≤ 4.0 ≤ 4.0	Push Terminal & Clamp IEC Male IEC Female Sat I F-Female Sat II F-Female	146 x 86 x 37 1 x UK - BT Style sockets (slave)
304118	Duplexed (2 Way) with DC Pass	DC, 5-68, 254-862 87.5-230	≤1.5 ≤2.5	Terminal & Clamp IEC Male IEC Female	86 x 86 x 31
304122	Single Outlet IEC	DC - 862	0.3 Typ.	Terminal & Clamp IEC Female	86 x 86 x 31
304123	Single Outlet F	DC - 2300	<1.6	Terminal & Clamp F-Female	86 x 86 x 31

Mechanical Data (mm)
Dimensions (inc. front plate)
(will fit standard 25mm flush mounting box)

Grid Outlets

- A flexible build solution for UK outlets
- Grid versions in polycarbonate brushed/ polished stainless and flat styles
- Full range of TV, Radio and Satellite modules in single, twin, triple and quad formats
- Range includes telephone master, slave, Cat 5E, RJ11, twin phono and twin loudspeaker modules
- White or Black polycarbonate moulding

TV / Radio / Satellite inserts	Single IEC(I)	Single IEC(M)	Single F	Single TV/Radio	Diplayed TV/Sat	Triplayed TV/Radio/Sat	Quad TV/Radio/Sat	Diplayed (Ireland) TV/Radio	Triplayed (Ireland) TV/Radio/Sat	Quad (Ireland) TV/Radio/Sat (Sat II)	Blank
White Insert	304250	304252	304253	304254	304256	304262	304264	304262	304264	304266	304256
Black Insert	304251	304253	304255	304259	304261	304263	304265	304263	304265	304267	304257
Electrical Data:											
Frequency (MHz)											
In to Out	0.3	0.3	-	-	-	-	-	-	-	-	-
In to O.H	5 to 862	5 to 2300	0.6	-	-	-	-	-	-	-	-
In to Radio	87.5 to 108	-	-	-	-	-	-	2.0	2.0	2.5	-
In to Radio	87.5 to 230	-	-	1.5	-	3.0	3.0	1.0	1.0	1.0	-
In to TV	5 to 68	-	-	1.0	-	-	-	1.0	1.0	-	-
In to TV	47 to 682	-	-	2.0	-	-	-	-	-	-	-
In to TV	47 to 68	-	-	-	2.0	-	-	-	-	-	-
In to TV	120 to 862	-	-	-	-	-	-	1.5	2.0	2.0	-
In to TV	254 to 862	-	-	-	-	-	-	-	-	-	-
In to TV	470 to 862	-	-	1.5	-	2.5	2.5	-	2.5	-	-
In to Sat	950 to 2150	-	-	-	2.5	-	-	-	2.5	-	-
In to Sat	2150 to 2400	-	-	-	3.0	-	-	-	-	-	-
In to Sat	950 to 2300	-	-	-	3	-	3	-	-	-	-
In to Sat II	5 to 2400	-	-	-	-	-	1.5	-	-	1.0	-
Power Pass	Yes	Yes	Yes	Yes(TV)	Yes(Sat)	Yes(Sat)	Yes(Sat /Sat II)	Yes(TV)	Yes(Sat)	Yes(Sat /Sat II)	-
Mechanical Data											
Dimensions (mm)	25 x 50	25 x 50	25 x 50	25 x 50	50 x 50	50 x 50	50 x 50	50 x 50	50 x 50	50 x 50	25 x 50
Flts 15mm Patress	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Telephone Inserts

Telephone Inserts	Insert Colour	BT Telephone Master	BT Telephone Secondary	RJ 11 Modern	CAT 5E	Audio Inserts	Twin Phono	Twin Loudspeaker
Part No	White	304268	304270	304272	304274	304278	304278	304280
	Black	304269	304271	304273	304275	304279	304279	304281

Audio Inserts

Euro Grids

Eurogrid Style	1 Gang Eurogrid 25 x 50mm	1 Gang Eurogrid 50 x 50mm	2 Gang Eurogrid 100 x 50mm
Polycarbonate	304200	304201	304202
Brushed Stainless Steel	304209	304211	304213
Brushed Stainless Steel	304203	304205	304207
Flat style polished stainless steel	304221	304223	304225
Flat style brushed stainless steel	304215	304217	304219
Overall Dimensions (mm)	86 x 86	86 x 86	146 x 86
Suitable for Eurogrid Insert style	1 x Single Outlet	1 x Double Outlet 2 x Single Outlet	2 x Double Outlet 4 x Single Outlet



Outlets

Wolsey Unscreened PO Outlets



Part No.	Type	Description
167001	PO1U	Single Outlet, isolated, 1 in/1 out
167008	PO2U	Double Outlet, isolated, 1 in/2 out
167016	PO2U RSI	Double, (equal split), outlet, isolated, 1 in/2 out
167028	TV-Radio/Sat	Double Outlet, semi-isolated, 1 in/2 out
167014	PSO1	Single Outlet, non isolated, 1 in/1 out
167015	PSO2	Double Outlet, non isolated, 2 in/2 out
167033	FPSO1	Single, F connector, outlet, non isolated, 1 in/1 out
167034	FPSO2	Double, F/IEC, VHF-UHF/Sat outlet, non isolated, 1 In/1 Out



Meters

Wolsey SAT III and TERR II Meters

- NEW SAT III Meter
- Digital Terrestrial meter, TERR II
- Lightweight ABS, shock absorbent housing
- Purpose designed outer case and neck strap
- Ergonomically angled screen for maximum visibility
- Supplied with mains and in-vehicle charger
- Backlit LCD display



Part No	Type	Description
304051	SAT III Meter	<ul style="list-style-type: none"> ● New 4 AmpH battery ● New 6 button key pad for ease of operation ● Operates directly from mains if battery is not charged ● Switch mode power supply ● LNB diagnostics for the following: <ul style="list-style-type: none"> · Automatic checking of horizontal and vertical voltage switching · High/Low band tone switching ● Pre-loaded with all major satellites available in the UK ● Programmed for all transponders on Astra 28.2°E and Eurobird 28.5°E ● Software upgradeable from PC via USB lead
304050	TERR II Meter	<ul style="list-style-type: none"> ● Displays signal strength, picture quality and C/N ● Pre-programmed with the major UK transmitters ● Displays signal strength on analogue signals

Accessories

Attenuators Fixed IEC range

Part No.	Attenuation	Frequency
153720	3dB	5-862MHz
153721	6dB	5-862MHz
153722	9dB	5-862MHz
153723	12dB	5-862MHz
153724	18dB	5-862MHz

Attenuators Fixed F range

Part No.	Attenuation	Frequency
153710	3dB	5-862MHz
153711	6dB	5-862MHz
153712	10dB	5-862MHz
153713	20dB	5-862MHz

Attenuators Variable range

Part No.	Attenuation	Frequency	
342000	1.5-20	47-862MHz	Outdoor, DC pass
342250	1.5-20	47-862MHz	Indoor-plug-in

Terminators

Part No.	Type
153054	F Type, 75ohm
364025	F Type, 75ohm, DC blocked

Connectors

Part No.	Type
153055	Inline coaxial cable joiner
153031U	Coax back to back
153049U	Crimp-on coax connector
153594	F (Female) to F (Female) coupler

Satellite Dishes

TD Dishes

- High quality design
- 54, 64, 78, 88 and 110cm versions available
- Pre-mounted feedarm, (except TD110)
- LNB holder with clip-on bracket (Ø40mm and Ø25mm)
- Simple installation and adjustment
- LNB cable can be routed through the feedarm
- Stable, non slip mast bracket with one or two U bolts, (depending on dish size)
- Available in galvanised steel
- Polyester powder coat



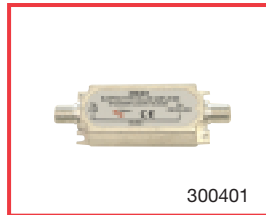
Model	TD 54	TD 64	TD 78	TD 88	TD 110
Part No.	121589	121689	121789	121889	121989
Dimensions (cm)	50x55	60x65	70x78	85x95	100x105
Frequency Range (GHz)	10.7-12.75	10.7-12.75	10.7-12.5	10.7-12.75	10.7-12.75
Gain (@11.7GHz)	34.2dBi	35.8dBi	37.1dBi	38.8dBi	40.2dBi
G/T(NF LNB 0.7dB)	14.2dB/K	16.0dB/K	17.3dB/K	19.2dB/K	20.6dB/K
Offset Angle	26°	26°	26°	26°	26°
Elevation Range	10° - 50° 45° - 80°	10° - 50° 45° - 80°	10° - 50° 45° - 80°	10° - 50° 45° - 80°	10° - 50° 45° - 80°
Beamwidth	3.7°	3.1°	2.6°	2.0°	1.8°
Windload(@42m/s)	323N	425N	619N	902N	1222N
Mast Dimension (mm)	Ø 32 - 50	Ø 32 - 50	Ø 32 - 50	Ø 32 - 50	Ø 32 - 50

Accessories

Part No.	Model	Product Description
300719	TD Flexiblock	Dual LNB holder, (Ø40mm & Ø25mm), angle, 3° to 10°
300725	TD Multiblock	4 LNB holder, up to 20° span, includes 4 x LNBs and DiSeqC
300727	TD Multiblock	4 LNB holder, up to 20° span, bar and feed clamps only
129420	TD Plastics Kit, Grey	Replacement LNB holder
129421	TD Plastics Kit, Black	Replacement LNB holder
128070	TD Wall Mount Bracket	'S' Type wall mount bracket
124072	TD Wall Mount Bracket	Heavy duty wall mount bracket, suitable for TD 110
300709	TD Wall/Roof Mount	Galvanised steel mount, Ø45mm, (unsuitable for TD110)
300401	In-Line Amplifier	47-2300 MHz, Gain 16-20dB
370650	Sat Slope Compensator	In-Line satellite amplifier with gain and slope control

Satellite Dishes

TD Dish Accessories



Satellite Dishes

TDE Dishes

Heavy duty, high quality satellite dishes designed for SMATV systems.



The TDE range of heavy duty satellite dishes continues the Triax tradition of high quality manufacture and reception. The reflector is made of 1.6mm aluminium and the bracketry and feedarm is made in one piece ensuring the optimum angle between LNB and dish. Keyhole slots in the dish face makes assembly simple. Strength, stability and ease of installation are key features of this product.

- Heavy duty design
- Two versions, TDE 88 and TDE 110
- Easy to Install
- One piece feedarm and bracketry
- Die cast aluminium LNB Bracket
- Dish face manufactured from 1.6mm aluminium
- Keyhole slots in dish face for simple assembly
- Two U bolts ensure a secure installation to pole
- Heavy duty wing nuts on azimuth and elevation brackets
- Dual LNB flexiblock available

Satellite Dishes

Technical Data on TDE Aluminium Dishes

Type	TDE 88	TDE 110
Size	85-95cm	100-105cm
Colour Anthracite (Ral 7016)	126387	126382
Frequency range	GHz 10.7-12.75	10.7-12.75
Gain @11.7GHz	dBi 38.8	40.2
G/T LNB 0.7 dB	dB/K 19.2	20.6
X-polarisation	dB >27	>27
Offset angle	degrees 26	26
Elevation range	degrees 10-60	10-60
Reflector type	F/D 0.6 Offset	Offset
Beamwidth	degrees 2.0	1.8
Windload @ 42m/s	N 902	1222
Material	Aluminium	Aluminium
Finish	Polyester powder coat	Polyester powder coat
Aluminium LNB holder	mm Ø40	Ø40
Mast dimension	mm Ø40-95	Ø40-95
Wall brackets	Optional extra	Optional extra

DAP Dishes

- Fibreglass reflector
- Durable design
- Available as 60, 70, 80, 90cm
- Ideal for use in difficult environmental conditions
- Simple to install
- Pole mount
- Strong mast bracket



Description	Part No.
DAP 600	126311
DAP 700	126314
DAP 800	126318
DAP 900	126317

Satellite Dishes

Elliptical Perforated Dishes

The Triax range of elliptical dishes are specifically designed for the reception of digital satellite signals. Available in 2 sizes, 44cm and 60cm, they are used with 'plug-in', optimised elliptical LNBs. Manufactured in perforated zinc coated steel, the dish has the following features:



- Tilt/Skew adjustment
- Integrated spirit level to aid alignment (region 1 dish only)
- Polyester powder coated reflector and bracketry
- Pole or wall mounting
- Packed in singles or 5-packs

Part No.

Single Box	5 Pack	Model
124225	124332	44cm Elliptical, Perforated Dish - Region 1, (anthracite)
124226	124335	60cm Elliptical, Perforated Dish - Region 2, (anthracite)

Elliptical Dish LNB Range

Part No.	Description
300420	Wistron single LNB
300421	Wistron quad LNB
124070	40 mm LNB holder for elliptical dishes



LNBs

Triax LNBS

To complement our comprehensive range of satellite dishes, Triax also offers a range of LNBS for use in domestic and system applications.

- High specification
- Fits Ø40mm LNB holders
- Single, quad, and quattro versions available
- Full Ku Band coverage for both analogue and digital reception
- Excellent noise figures, 0.3dB in both high and low bands
- High cross polarisation performance
- Low in-band spurious level
- Low power consumption
- 2 Year Warranty



Part No.	Description
300430	Triax Single, Universal LNB, TSI 003
300436	Triax Quad, Universal LNB, TQD 002
300438	Triax Quattro, Universal LNB, TQT 002 (for use with Multiswitches)

Receivers

Digital Satellite Receivers

Triax offers a range of receivers including:

- Free-to-air digital satellite receivers
- Digital satellite receivers with conditional access, (CA)

Part No.	Model	Description
300037	DVB 1000S	Digital Free-to-Air Receiver
300038	DVB 1010S	Digital Receiver with 2 x CI

For the latest information on Triax Receivers - www.comcast.com

Indoor and Outdoor Cabinets

Triax TCC 19" Cabinets

- Indoor 19" cabinet with backboard
- Available with steel or glass door
- Internal 19" swing rack
- Holds up to eight 19" shelves
- Removable side panel to improve access
- Full range of accessories available
- Outer Dimensions - H x W x D (mm) - 1100 x 650 x 450



Part No	Description
251493	TCC 19" Compact Cabinet (glass door) - cabinet only
251494	TCC 19" Compact Cabinet (steel door) - cabinet only
370205	Shelf kit - includes 19" shelf plus fixing screws
370206	Fan kit - includes fan, protection grid, fixing screws and connection lead
848616	Spare cabinet key
737030	Set of 4 locking wheels
708028	Thermostat

Indoor Wall Cabinet

- Suitable for TMS Cascade Multiswitches

Part No	Description	
350226	Series 827 (RAL 7035)	300 x 750 x 170mm
350227	Series 827 (RAL 7035)	600 x 800 x 250mm
160632	Wall Box and Cover	460 x 350 x 120mm

ENCLOSURES

Type	Model	Part No.	Indoor / Outdoor	Overall Dimensions HxWxD(mm)	Comment
MDU	MDU 8	251000	Indoor	370x270x180	Light Grey, Steel backboard
MDU	MDU 16	251005	Indoor	490x320x180	Light Grey, Steel backboard
MDU	MDU 32	251010	Indoor	660x440x180	Light Grey, Steel backboard
11S	11S 6	160622	Outdoor	600x396x240	Grey, 3-Pt security locking
11S	11S 8	160822	Outdoor	800x516x240	Grey, 3-Pt security locking
11S	11S 10	160922	Outdoor	940x790x325	Grey, 3-Pt security locking
35SA	20SA-1MP	161115/161116	Outdoor	600x150x90	Grey / Green, (total ht 1300mm)
35SA	35SA-2R	235201/235205	Outdoor	600x263x107	Grey / Green, (total ht 1300mm)
35SA	35SA-2.5R	235251/235255	Outdoor	700x353x173	Grey / Green, (total ht 1400mm)
35SA	35SA-3R	235301/235305	Outdoor	700x353x173	Grey / Green, (total ht 1400mm)
35SA	35SA-4R	235401/235405	Outdoor	700x530x173	Grey / Green, (total ht 1400mm)
35SA	35SA-6R	235601/235605	Outdoor	700x563x213	Grey / Green, (total ht 1400mm)
35SA	35SA-7R	235701/235706	Outdoor	1020x650x253	Grey / Green, (total ht 1720mm)
35SA	35SA-10R	235801/235806	Outdoor	1020x1100x253	Grey / Green, (total ht 1720mm)
Kiosk 530	Kiosk 530	232051/232050	Outdoor	985x530x315	Grey / Green – Pitched Roof
Kiosk 530	Kiosk 530H	232054/232056	Outdoor	985x530x315	Grey / Green – Pitched Roof
Kiosk 760	Kiosk 760	232070/232071	Outdoor	985x760x310	Grey / Green – Pitched Roof
Kiosk 760	Kiosk 760H (ETSI rack)	232073	Outdoor	985x760x310	Grey / Green – Pitched Roof
Kiosk 700	Kiosk 700	232172 / 232171	Outdoor	1300x700x500	Green – Pitched Roof

ENCLOSURES

Type	Model	Part No.	Indoor / Outdoor	Overall Dimensions HxWxD(mm)	Comment
Wall Cabinets	WC 66-C	266350	Indoor	250x350x165	Grey, chipboard backboard
Wall Cabinets	WC 66-B	266392	Indoor	334x390x165	Grey, chipboard backboard
Wall Cabinets	WC66-A	266602	Indoor	500x600x165	Grey, chipboard backboard
Wall Cabinets	WC 66-A1	266706	Indoor	700x500x220	Grey, chipboard backboard
Wall Cabinets	WC 1	251300	Indoor	250x220x135	Grey, stainless steel backboard
Wall Cabinets	WC 11	266303	Indoor	365x220x135	Grey, stainless steel backboard
Wall Cabinets	WC 111	251305	Indoor	365x550x165	Grey, stainless steel backboard
Wall Cabinets	WC 1V	251307	Indoor	610x390x165	Grey, stainless steel backboard
Wall Cabinets	WC V	251309	Indoor	610x550x165	Grey, stainless steel backboard
Wall Cabinets	WC V1	251311	Indoor	860x720x165	Grey, stainless steel backboard
Kiosk 1200	Kiosk 1200	232221	Outdoor	985x1200x310	Green, Pitched Roof
Kiosk 1200	Kiosk 1200L	232215	Outdoor	985x1200x310	Grey, Pitched Roof
33SA	33SA-2F	233203	Outdoor	770x252x211	Green, Louvers, sloped top
33SA	33SA-3	233303	Outdoor	770x332x211	Green, Louvers, sloped top
33SA	33SA-4	233411	Outdoor	804x443x211	Green, Convection, sloped top
33SA	33SA-4	233413	Outdoor	804x443x211	Green, Louvers, sloped top
33SA	33SA-4F	233415	Outdoor	804x443x211	Green, Convection, sloped top
33SA	33SA-4F	233417	Outdoor	804x443x211	Green, Louvers, sloped top

Frequency Guide

Type	Model	Part No.	Indoor / Outdoor	Overall Dimensions HxWxD(mm)	Comment
Kiosk 1400	Kiosk 1400	232241	Outdoor	1000x1400x388	Green, Pitched roof
Kiosk 1400	Kiosk 1400HU	232243	Outdoor	1400x1400x388	Green, Pitched roof
Kiosk 1420	Kiosk 1420	232564	Outdoor	1140x1420x445	Green, Pitched roof
Kiosk 1300	Kiosk 1300	232130	Outdoor	985x1300x310	Grey, Pitched roof
Kiosk 1380	Kiosk 1380	232580	Outdoor	1055x1380x335	Green, Pitched roof
Kiosk 1100	Kiosk 1100	232560	Outdoor	1070x1105x462	Green, Pitched opening roof
Kiosk 800	Kiosk 800DP	232500	Outdoor	1050x805x352	Green, Pitched opening roof
Kiosk 800	Kiosk 800HUB	232030/232530	Outdoor	1070x805x462	Grey/Green Pitched opening roof



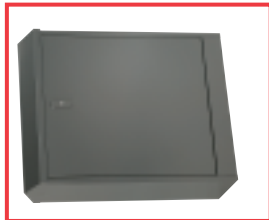
MDU Lock Box



Kiosk 1800



Kiosk 530



Kiosk 760

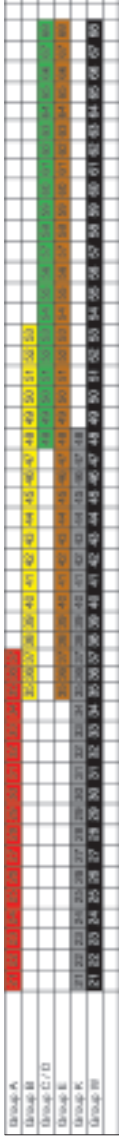
Frequency Bands:

Band	Frequency Range (MHz)
I (VHF)	47-68
II (FM)	87.5-108
III (VHF)	174-230
IV (UHF)	470-622
V (UHF)	622-862

UHF Channel No	Vision Carrier (MHz)	Sound Carrier (MHz)
21	471.25	477.25
22	479.25	485.25
23	487.25	493.25
24	495.25	501.25
25	503.25	509.25
26	511.25	517.25
27	519.25	525.25
28	527.25	533.25
29	535.25	541.25
30	543.25	549.25
31	551.25	557.25
32	559.25	565.25
33	567.25	573.25
34	575.25	581.25
35	583.25	589.25
36	591.25	597.25
37	599.25	605.25
38	607.25	613.25
39	615.25	621.25
40	623.25	629.25
41	631.25	637.25
42	639.25	645.25
43	647.25	653.25
44	655.25	661.25
45	663.25	669.25
46	671.25	677.25
47	679.25	685.25
48	687.25	693.25
49	695.25	701.25
50	703.25	709.25
51	711.25	717.25
52	719.25	725.25
53	727.25	733.25
54	735.25	741.25
55	743.25	749.25
56	751.25	757.25
57	759.25	765.25
58	767.25	773.25
59	775.25	781.25
60	783.25	789.25
61	791.25	797.25
62	799.25	805.25
63	807.25	813.25
64	815.25	821.25
65	823.25	829.25
66	831.25	837.25
67	839.25	845.25
68	847.25	853.25

UK Transmitter Information

UK Transmitter Information



London & South-East

Station	Channel number and service										Aerial Group		
	22	23	25	26	28	29	30	32	33	34	37	A	A+D
Crystal Palace	D2	A3	D1	A1	D4	D6	A4	D3	A2	D5	A5	A	A
Guildford	40	41	43	44	46	47	49	50	51	54		B	B
	A1	D3	A3	D2	A2	D5	D1	A4	D4	D6		B	B
Reigate	21	24	27	31	53	57	60	63	39	66		A	W
	D2	D3	D4	D1	A4	A1	A3	A2	D5	D6		A	W
Tunbridge Wells	39	41	42	44	45	47	51	55	59	61		B	E/W
	D5	A3	D3	A2	D4	A4	A1	D1	D6	D2		B	E/W
Hemel Hempstead	41	44	47	48	51	55	59	60	62	65		B	E/W
	A3	A2	A4	D1	A1	D2	D4	D3	D5	D6		B	E/W
Bluebell Hill	24	27	39	40	42	43	45	46	59	65		E/W	W
	D2	D3	D6	A1	D5	A3	D4	A2	A2	D1	A4	E/W	W
Dover	50	53	55	56	57	58	60	61	66	68		C/D	C/D
	A1	A4	D3	A2	D5	D4	D6	D2	A3	D1		C/D	C/D

A = Analogue D = Digital

- A1 is BBC1, A2 is BBC2, A3 is ITV, A4 is Channel 4 and A5 is Five
- D1 is Mux1, D2 is Mux 2, D3 is Mux A, D4 is Mux B, D5 is Mux C and D6 is Mux D

South of England

Station	Channel number and service										Aerial Group		
	21	23	24	26	27	30	31	32	33	34	37	A	A+D
Rowridge	A4	D1	A2	D5	A3	D3	A1	D4	D6	D2	A	A	A
Salisbury	52	53	55	56	57	59	60	62	63	65		B	B
	D6	A4	D1	D2	A1	D3	A3	D4	A2	D5		B	B
Whitehawk Hill	48	50	53	55	57	58	60	61	63	66		C/D	C/D
	D4	D2	A4	D3	A1	D5	A3	D6	A2	D1		C/D	C/D
Hannington	35	39	40	41	42	43	44	45	46	50		E	W
	A5	A1	D3	D6	A3	D2	D5	A2	D4	A4		E	W
Midhurst	55	56	58	59	60	61	62	64	65	68		C/D	C/D
	A2	D1	A3	D4	D6	A1	D3	D5	D2	A4		C/D	C/D
Heathfield North	29	34	47	48	49	51	52	54	64	67		E	W
	D2	D1	D4	D3	A1	D6	A2	D5	A3	A4		E	W
Hastings	21	22	24	25	27	28	31	32	60	63		A	W
	D3	A1	D4	A2	D2	A3	D1	A4	D6	D5		A	W

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UK Transmitter Information

South West

Station	Channel number and service										Aerial Group								
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Mendip	37 D2	54 A4	55 D2	56 D5	58 A1	59 D1	61 A3	62 D3	64 A2	65 D4	67 D6	E/W	E/W						
Bristol K/W	22 D1	25 D2	28 D3	30 D5	32 D4	34 D6	42 A3	44 A1	48 A2	52 A4		B	W						
Bristol IC	39 D2	40 A1	41 D3	43 A3	44 D4	46 A2	47 D5	49 D1	50 A4	51 D6		B	B						
Stockland Hill	22 D1	23 A3	25 D3	26 A2	28 D2	29 A4	30 D5	32 D4	33 A1	34 D6		A	A						
Beacon Hill	52 D1	53 A4	54 D4	56 D5	57 A1	58 D3	60 A3	61 D2	63 A2	64 D6		C/D	C/D						
Huntshaw Cross	53 D5	54 D1	55 A1	57 A3	58 D2	59 A3	61 D3	62 A2	64 D4	65 A4	67 A5	C/D	C/D						
Huntshaw B	47 D6	51 D5										C/D	C/D						
Caradon Hill	21 D4	22 A1	24 D5	25 A3	27 D6	28 A2	31 D2	32 A4	34 D1	48 D3		A	W						
Plimpton	30 A5	52 D1	54 A4	56 D6	58 A1	60 D4	61 A3	63 D5	64 A2	66 D3	67 D2	W	W						
Redruth	37 A5	39 D1	41 A3	42 D2	43 A2	44 D5	45 D3	47 A4	49 D4	50 D6	51 A1	B	B						

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UK Transmitter Information

Wales & West

Station	Channel number and service										Aerial Group								
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Wennoe	30 D1	34 D2	40 D3	41 A3	43 D5	44 A1	46 D6	47 A4	50 D4	51 A2		B	W						
Kilvey Hill	21 D5	22 D2	23 A3	25 D1	26 A2	28 D3	29 D4	31 D5	32 D4	33 A1	35 A5	A	A						
Aberdare	21 A1	23 D3	24 A3	26 D4	27 A2	28 D1	29 D5	31 A4	32 D2	33 D6		A	A						
Pontypool	21 A1	24 A3	27 A2	31 A4	42 D3	45 D4	48 D2	52 D1	66 D5	68 D6		A	W						
Carmel	53 A4	55 D1	57 A1	59 D3	60 A3	62 D4	63 A2	65 D2	66 D6	68 D5		C/D	C/D						
Preseli	37 A5	39 D3	40 A2	42 D4	43 A3	45 D5	46 A1	47 D1	49 D6	50 A4	51 D2	B	B						
Blainplwyf	21 A4	22 D2	24 A3	25 D3	27 A2	28 D1	29 D5	31 A1	32 D4	33 D6	56 A5	W	W						
Llanddona	46 D6	53 A4	54 D2	57 A1	58 D3	60 A3	61 D4	63 A2	64 D5	67 D1		C/D	C/D						
Moely-Parc	30 D5	34 D6	42 A4	45 A2	48 A3	52 A1	54 D1	58 D2	61 D3	64 D4		B	W						

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UK Transmitter Information

Midlands

Station	Channel number and service												Aerial Group																																																																																																																																																																																																																																										
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z																																																																																																																																																																																																																													
Sutton Coldfield	40	41	43	44	46	47	50	51	52	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																
Brierley Hill	53	56	57	59	60	62	63	65	66	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																													
Bromsgrove	21	23	24	26	27	29	30	31	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																											
Malvern	39	41	44	47	51	52	56	62	66	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																													
Larkstoke	21	23	24	26	27	29	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																													
Fenton	21	22	24	25	27	28	30	31	32	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																											
The Wrekin A	21	23	24	26	27	29	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																													
The Wrekin B	23	26	29	33	35	39	42	45	49	53	57	61	65	69	73	77	81	85	89	93	97	101	105	109	113	117	121	125	129	133	137	141	145	149	153	157	161	165	169	173	177	181	185	189	193	197	201	205	209	213	217	221	225	229	233	237	241	245	249	253	257	261	265	269	273	277	281	285	289	293	297	301	305	309	313	317	321	325	329	333	337	341	345	349	353	357	361	365	369	373	377	381	385	389	393	397	401	405	409	413	417	421	425	429	433	437	441	445	449	453	457	461	465	469	473	477	481	485	489	493	497	501	505	509	513	517	521	525	529	533	537	541	545	549	553	557	561	565	569	573	577	581	585	589	593	597	601	605	609	613	617	621	625	629	633	637	641	645	649	653	657	661	665	669	673	677	681	685	689	693	697	701	705	709	713	717	721	725	729	733	737	741	745	749	753	757	761	765	769	773	777	781	785	789	793	797	801	805	809	813	817	821	825	829	833	837	841	845	849	853	857	861	865	869	873	877	881	885	889	893	897	901	905	909	913	917	921	925	929	933	937	941	945	949	953	957	961	965	969	973	977	981	985	989	993	997	1001
Ridge Hill	22	25	28	32	35	42	45	53	57	60	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																							
Oxford	29	34	48	49	51	52	53	57	60	63	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																												
Waltham	23	26	33	35	42	45	49	54	58	61	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																								
Nottingham	21	24	27	29	31	34	39	53	59	63	67	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																												

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UK Transmitter Information

East Anglia

Station	Channel number and service												Aerial Group																																																															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z																																																		
Tacolneston	52	53	55	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																														
Stubbury	35	39	41	44	47	48	49	50	51	54	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																					
Sandy Heath	21	24	27	31	39	40	42	43	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100												
North	21	24	27	31	39	40	42	43	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100												
Station	Channel number and service												Aerial Group																																																															
Winter Hill	48	50	55	56	59	60	62	63	65	66	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																	
Winter Hill B	43	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																			
Pendle Forest	21	22	24	25	27	28	30	31	32	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Saddleworth	39	41	42	44	45	47	49	51	52	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																				
Storeton	22	23	25	26	28	29	30	32	33	34	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				

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UK Transmitter Information

North Continued

Station	Channel number and service										Aerial Group	
	A	B	C	D	E	F	G	H	I	J	A	A+D
Lancaster	21 A4	22 D2	24 A3	25 D3	27 A2	28 D1	30 D6	31 A1	32 D4	34 D5	A	A
Emley Moor	37 A5	40 D2	41 A4	43 D3	44 A1	46 D4	47 A3	49 D6	50 D5	51 A2	B	B
Sheffield	21 A4	24 A3	27 A2	31 A1	39 D1	42 D6	45 D5	53 D2	57 D3	60 D4	W	W
Chesterfield	23 A3	26 A2	29 A4	33 A1	34 D1	40 D2	43 D3	45 D4	50 D5	52 D6	A	W
Keighley	30 D5	34 D6	48 D1	53 D4	54 A1	58 A4	61 A3	64 A2	66 D3	68 D2	C/D	W
Idle	21 A1	24 A3	27 A2	30 D5	31 A4	34 D3	42 D6	45 D1	53 D2	56 D4	A	W
Belmont	22 A1	25 A3	28 A2	30 D1	32 A4	48 D2	56 D5	57 D6	60 D5	66 D4	W	W
Olivers Mount	49 D1	53 A4	54 D3	57 A1	58 D4	60 A3	61 D5	63 A2	64 D6	66 A5	C/D	C/D

A = Analogue D = Digital

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UK Transmitter Information

North East & Borders

Station	Channel number and service										Aerial Group	
	A	B	C	D	E	F	G	H	I	J	A	A+D
Blisdale	21 D2	23 A4	24 D4	26 A2	27 D5	29 A3	31 D3	33 A1	34 D1	35 A5	A	K/W
Pontop Pike	48 D1	53 D6	54 A4	55 D2	58 A1	59 D3	61 A3	62 D4	64 A2	65 D5	C/D	C/D
Ferriham	21 A1	22 D2	24 A3	25 D3	27 A2	28 D4	30 D1	31 A4	32 D5	57 A6	W	W
Chatton	39 A1	40 D1	42 A4	43 D3	45 A2	46 D4	47 D5	49 A3	50 D2	51 D6	B	B
Caldbeck	23 D2	25 D1	26 D3	28 A3	30 A1	32 A4	34 A2	39 D4	42 D6	45 D5	W	W
Sandale	22 A1	67 D2									W	W
Selkirk	52 A5	53 D1	55 A1	56 D6	57 D2	59 A3	60 D3	62 A2	63 D4	65 A4	C/D	C/D

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UK Transmitter Information

Central Scotland & Tayside

Station	Channel number and service												Aerial Group		
	A	A1	A2	A3	A4	A5	D	D1	D2	D3	D4	D5	D6	A	A+D
Black Hill	37	40	41	43	44	44	46	47	50	51	55	65	66	B	W
	A5	A1	D1	A3	D3	A2	A2	D2	A4	D4	D5	D6	D6		
Torossy	21	22	23	25	26	26	28	29	31	32	33	33	33	A	A
	D5	A1	D1	A3	D2	A2	A2	D3	D6	A4	D4	D4	D4		
Darvel	22	23	25	26	28	28	29	30	32	33	34	35	35	A	A
	D1	A3	D2	A2	D4	A4	A4	D5	D3	A1	D6	A5	A5		
Rosneath	48	53	54	57	58	60	60	61	63	64	67	67	67	C/D	C/D
	D6	D2	A4	D3	A1	D4	A3	A3	D5	A2	D1	D1	D1		
Craigkelly	21	23	24	26	27	29	29	31	33	39	42	48	48	A	W
	A4	D3	A3	D4	A2	D2	A1	D1	D6	D5	D5	A5	A5		
Angus	53	56	57	59	60	62	62	63	65	66	68	68	68	C/D	C/D
	A4	D5	A1	D3	A3	D4	A2	A2	D6	D2	D1	D1	D1		

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UK Transmitter Information

Grampian & Highlands

Station	Channel number and service												Aerial Group		
	A	A1	A2	A3	A4	A5	D	D1	D2	D3	D4	D5	D6	A	A+D
Durris	22	25	28	30	32	34	34	41	44	51	52	67	67	A	W
	A1	A3	A2	D1	A4	D2	D5	D5	D6	D4	D3	A5	A5		
Knock More	23	26	29	30	33	34	34	53	56	57	60	60	60	A	W
	A3	A2	A4	D2	A1	D1	D1	D3	D6	D4	D5	D5	D5		
Rosemarkie	39	41	42	44	45	46	46	47	49	50	51	51	51	B	B
	A1	D3	A4	D4	A2	D5	D1	A3	D6	D2	D2	D2	D2		
Eitshell	22	23	25	26	28	29	29	30	32	33	34	34	34	A	A
	D3	A3	D4	A2	D5	A4	A4	D2	D6	A1	D1	D1	D1		
Rumster Forest	21	22	24	25	27	28	31	32	32	59	62	62	62	A	W
	A4	D2	A3	D3	A2	D1	A1	D4	D6	D5	D5	D5	D5		
Keelylang Hill	40	41	43	44	46	47	48	48	50	51	52	52	52	B	B
	A1	D3	A3	D4	A2	D5	D1	A4	D6	D2	D2	D2	D2		
Bressay	21	22	24	25	27	28	31	32	32	66	68	68	68	A	W
	D1	A1	D2	A3	D3	A2	D4	A4	D5	D5	D6	D6	D6		

Northern Ireland

Station	Channel number and service												Aerial Group		
	A	A1	A2	A3	A4	A5	D	D1	D2	D3	D4	D5	D6	A	A+D
Divis	21	23	24	26	27	29	29	31	33	34	48	48	48	A	K/W
	A4	D3	A3	D4	A2	D1	D1	A1	D2	D6	D5	D5	D5		
Limavady	53	55	57	58	59	60	62	63	65	67	67	67	67	C/D	C/D
	D3	A1	D4	D2	A3	D5	A2	D6	A4	D1	D1	D1	D1		
Brough Mountain	22	23	25	26	28	29	30	32	33	34	34	34	34	A	A
	A1	D3	A3	D4	A2	D5	D1	A4	D6	D6	D2	D2	D2		

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Useful Addresses

Confederation of Aerial Industries Ltd.

Fulton House, Fulton Road, Wembley, Middlesex,
HA9 0TF
T: 0208 902 8998
F: 0208 903 8719
Email: office@cai.org.uk
www.cai.org.uk

Digital Television Group

7 Old Lodge Place, St. Margaret's, Twickenham,
TW1 1RQ
T: 0208 891 1830
F: 0208 911 1999
www.dtg.co.uk

Freeview

DTV Services Ltd, Broadcast Centre (BC3 D5),
201 Wood Lane, London, W12 7TP
T: 08708 80 99 80
www.freeview.co.uk

British Sky Broadcasting Ltd.

Grant Way, Isleworth, Middlesex, TW7 5QD
T: 0207 705 3000
www.sky.com

BBC Reception Advice

Television Centre, Wood Lane, London, W12 7RJ
T: 08700 100 123
www.bbc.co.uk/reception

The Digital Television Project

(Information on digital reception issues)
www.digitaltelevision.gov.uk

Wolsey Meter Support

(For technical information and software downloads on
Wolsey Meters)
www.metersupport.co.uk

Digital UK

www.digitaluk.co.uk

Digital Switchover Rollout Plan

