

THINK ELECTRICAL

DIGITAL VIDEO SYSTEMS

SHORTFORM CATALOGUE '18

ACDC
DYNAMICS
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PREVIEW OF THE NEW '18|19 MAIN CATALOGUE



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Wide range of superior quality
television equipment and
accessories for hospitality

NEW

WIFI MODEMS / ROUTERS

	WiFi ADSL2+	AC1600 WiFi VDSL/ADSL	AC1900 WiFi VDSL/ADSL	AC2600 WiFi VDSL/ADSL
<ul style="list-style-type: none"> • WiFi Protected Access® (WPA/WPA2-PSK) • Double firewall protection (SPI & NAT) • Denial-of-service (DoS) attack prevention • Actual throughput & Coverage is site/network dependant 				
Code	D6000	D6400	D7000	D7800
Description	<ul style="list-style-type: none"> • AC750 Simultaneous Dual Band WiFi - IEEE® 802.11 b/g/n 2.4GHz (300Mbps*) - IEEE® 802.11 a/n/ac 5GHz (450Mbps*) • High-speed ADSL2+ modem built-in • WiFi Boost with high powered radio amplifiers • Memory: 16MB flash & 64MB RAM • Four (4) 10/100/1000 Mbps Gigabit Ethernet ports • One (1) DSL port • One (1) USB 2.0 port 	<ul style="list-style-type: none"> • AC1600 Simultaneous Dual Band WiFi - IEEE® 802.11 b/g/n 2.4GHz (300Mbps*) - IEEE® 802.11 a/n/ac 5GHz(1300Mbps*) • High-speed VDSL/ADSL modem built-in • Beamforming+—Smart, signal-focusing technology boosts the speed, reliability, & range of your WiFi connections • Push 'N' Connect—Easy push button WiFi connections (WPS) • WiFi Boost with high-power radio amplifiers • Memory: 128MB flash & 128MB RAM • Five (5) 10/100/1000 (1 WAN and 4 LAN) Gigabit Ethernet ports • Two (2) USB 2.0 ports • One (1) VDSL/DSL port 	<ul style="list-style-type: none"> • AC1900 Simultaneous Dual Band WiFi - IEEE® 802.11 b/g/n 2.4GHz + 256 QAM support (600Mbps*) - IEEE® 802.11 a/n/ac 5.0GHz (1300Mbps*) • High-speed VDSL2/ADSL2+ modem built-in • Implicit & Explicit Beamforming • Powerful Dual Core processor • WiFi Boost with high-powered radio amplifiers • ReadySHARE® USB • ReadySHARE® Vault • Push 'N' Connect—Easy push button WiFi connections • Customized free URL to set up personal FTP server • VPN support—secure remote access • Guest network access • Memory: 128MB flash & 256MB RAM • Four (4) 10/100/1000 Mbps—(4 LAN) Gigabit Ethernet ports • Two (2) USB ports • One (1) VDSL/ADSL port 	<ul style="list-style-type: none"> • AC2600 Simultaneous Dual Band WiFi - IEEE® 802.11 b/g/n 2.4GHz + 256 QAM support (800Mbps*) - IEEE® 802.11 a/n/ac 5.0GHz (1733Mbps*) • High-speed VDSL2/ADSL2+ modem built-in • MU-MIMO support for simultaneous streaming • Quad Stream Wave 2 WiFi • Dynamic QoS intelligently prioritizes video streaming & gaming • Beamforming+ for more reliable connections • Powerful dual-core 1.4GHz processor • ReadyCLOUD® USB Access • ReadySHARE® USB • Enhanced Parental Controls • Customized free URL to set up personal FTP server • Guest network access • VPN Support-Secure Remote Access • Five (5) 10/100/1000 Mbps—(1 WAN & 4 LAN) Gigabit Ethernet ports • One (1) eSATA port • Two (2) USB 3.0 ports • One (1) VDSL/ADSL port

NEW

RANGE EXTENDERS

	Powerline 1000 - Wired	Powerline 1000 - WiFi	N300 WiFi Range Extender	AC750 WiFi Range Extender	AC1200 WiFi Range Extender
Code	PL1000	PLW1000	EX2700	EX3700	EX6120
Description	<ul style="list-style-type: none"> • Extend Internet Access to any room over existing electrical wiring • 1000 Mbps Powerline interface • 10/100/1000Mbps Gigabit Ethernet port (RJ45) • Typical coverage up to 500m² • Kit includes 2 PLC Adapters 	<ul style="list-style-type: none"> • Plug-in WiFi right where you want it • PowerLINE WiFi 1000 Access Point - IEEE® 2.4 GHz/5 GHz 802.11 a/b/g/n/ac wireless interface - 10/100/1000 Mbps Gigabit Ethernet port • Powerline 1000 Adapter - 10/100/1000 Mbps Gigabit Ethernet port • Typical coverage up to 500m² • Kit includes 1 WiFi Access Point & 1 PLC Adaptor 	<ul style="list-style-type: none"> • 802.11 b/g/n 2.4GHz wireless router or gateway • WiFi up to 300Mbps • External antennas for better performance • Convenient wall-plug design • Works with any WiFi router • Push 'N' Connect using WPS • One (1) 10/100 Mbps Ethernet Port 	<ul style="list-style-type: none"> • 2.4GHz and/or 5GHz 802.11 a/b/g/n/ac wireless router or gateway • Dual band WiFi up to 750Mbps (300 + 450) • External antennas for better performance • Convenient wall-plug design • Push 'N' Connect using WPS • One (1) 10/100 Mbps Ethernet Port 	<ul style="list-style-type: none"> • 2.4 and/or 5GHz 802.11ac & b/g/n Wireless Router or Gateway • Dual band WiFi up to 1200Mbps • High-power ext. antennas for better performance • World's smallest AC1200 wall-plug extender • Push 'N' Connect using WPS • One (1) 10/100 Mbps Ethernet Port

NEW

WIFI ROUTERS

Dual Band WiFi Routers

Code	ED-BR6478AC	ED-EWAP1750	ED-EWAP1200	UB-UAP-AC-LR	ED-CAP1200
Function	Router, WiFi Extender	Wall mount PoE router	Wall mount PoE router	Wall/Ceiling mount PoE router	Ceiling mount router
Frequency & Speed	2.4GHz / 300Mbps 5GHz / 867Mbps	2.4GHz / 450Mbps 5GHz / 1300Mbps	2.4GHz / 300Mbps 5GHz / 867Mbps	2.4GHz / 450Mbps 5GHz / 1300Mbps	2.4GHz / 450Mbps 5GHz / 1300Mbps
Ports	1 x RJ45 Gigabit WAN port 4 x RJ45 Gigabit LAN 1000Mbps	2 x Gigabit LAN ports	2 x Gigabit LAN ports	2 x 10/100/1000 Ethernet ports	1 x Gigabit LAN port
Security	WEP / WPA / WPA2	WEP / WPA / WPA2	WEP / WPA / WPA2	WEP / WPA-PSK/WPA-TKIP / WPA3/AES	WEP / WPA / WPA2
Standards	802.11b / g / n / a / ac	802.11b / g / n / a / ac	802.11b / g / n / a / ac	802.11b / g / n / a / ac	802.11b / g / n
Supply	230VAC/5VDC 2A adaptor	230VAC/12VDC 4A adaptor	230VAC/12VDC 2.5A adaptor	48VDC/0.5A PoE adaptor	230VAC/12VDC 1A adaptor

Single Band Routers

Power Line Range Extenders

Code	AR7286WN	UB-UAP-LR	ED-CAP300	ED-HP5101ES	ED-HP5101W
Function	Wall mount router	Wall/Ceiling mount PoE router	Ceiling mount	WiFi range extender	WiFi range extender
Frequency	2.4GHz / 300Mbps	2.4GHz / 300Mbps	2.4GHz / 450Mbps	500Mbps (over power line)	500Mbps (over power line)
Ports	1 x RJ45 Gigabit WAN port 4 x RJ45 Gigabit LAN 1000Mbps	1 x 10/100/1000 Ethernet port	1 x Gigabit LAN port	3 x 10/1000Mbps Ethernet	1 x 10/1000Mbps Ethernet
Security	WPA / WPA2	WPA2 / AES	WEP / WPA / WPA2	AES	WEP / WPA / WPA2 / WPS
Standards	802.11b / g / n	802.11b / g / n	802.11b / g / n	802.11b / g / n	802.11b / g / n
Supply	230VAC/12VDC 0.5A adaptor	24VDC/0.5A PoE adaptor	230VAC/12VDC 1A adaptor	In/Out 100-240VAC	100-240VAC

USB WiFi Dongles

Smart Plug Range Extender

Code	EW-7822UAC	EW7711USN	EW7711UAN	ED-SP-1101W
Function	Dual Band WiFi dongle	Single Band WiFi dongle	Single Band WiFi dongle	WiFi Smart Switch
Frequency & Speed	2.4GHz / 300Mbps 5GHz / 867Mbps	2.4GHz / 150Mbps	2.4GHz / 150Mbps	150Mbps (over power lines)
Software	XP/Vista/7/8/Linux/Mac	XP/Vista/7/8/Linux/Mac	XP/Vista/7/8/Linux/Mac	—
Security	WEP64 / WPA / WPA2	WEP64 / WPA / WPA2	WEP64 / WPA / WPA2	WEP / WPA / WPA3 / WPS
Standards	802.11a / b / g / n / ac	802.11a / b / g	802.11a / b / g	802.11a / b / g
Supply	USB	USB	USB	In/Out 100-240VAC

WIFI ROUTERS

NEW

	AC1200 Dual Band WiFi Router	AC1200 Smart WiFi Router	AC1900 Smart WiFi Router	AC3200 Tri-Band WiFi Router
<ul style="list-style-type: none"> WiFi Protected Access® (WPA/WPA2 –PSK) Firewall protection (NAT and/or SPI) Actual throughput & Coverage is site/network dependant 				
Code	R6120	R6220	R7000	R8000
Description	<ul style="list-style-type: none"> AC1200 Simultaneous Dual Band WiFi - IEEE® 802.11 b/g/n 2.4 GHz (300Mbps) - IEEE® 802.11 a/n/ac 5.0 GHz (900Mbps) • Five (5) 10/100 (1 WAN and 4 LAN) Fast Ethernet ports • One (1) USB 2.0 port 	<ul style="list-style-type: none"> AC1200 Simultaneous Dual Band WiFi - IEEE® 802.11 b/g/n 2.4GHz (300Mbps) - IEEE® 802.11 a/n/ac 5GHz (867Mbps) • Powerful 880MHz processor • WiFi Boost with high-powered radio amplifiers • Enhanced Parental Controls to manage web filtering & accessibility by profiles or devices • Denial-of-service (DoS) attack prevention • Free custom URL using NETGEAR Dynamic DNS service • Memory: 128MB flash & 128MB RAM • Five (5) 10/100/1000 (1 WAN and 4 LAN) Gigabit Ethernet ports • One (1) USB 2.0 port 	<ul style="list-style-type: none"> AC1900 Simultaneous Dual Band WiFi - IEEE® 802.11 b/g/n 2.4GHz + 256 QAM support (600Mbps) - IEEE® 802.11 a/n/ac 5.0GHz (1300Mbps) • Powerful dual core 1GHz processor • High-power amplifiers • Smart Connect—Same WiFi network name on 2.4 & 5GHz for automatic band selection • Dynamic QoS—Prioritizes bandwidth by application and device • ReadySHARE® USB • ReadyCLOUD® USB Access • Implicit & Explicit Beamforming—More reliable connections • Customized free URL—To set up personal FTP server • VPN support—Secure remote access • Guest network access • Memory: 128MB flash & 256MB RAM • Five (5) 10/100/1000Mbps – 1 WAN & 4 LAN Gigabit Ethernet ports • Two (2) USB ports—1 USB 3.0 & 1 USB 2.0 port 	<ul style="list-style-type: none"> AC3200 Simultaneous Tri Band WiFi - IEEE® 802.11 b/g/n 2.4GHz-256QAM support (600Mbps) - IEEE® 802.11 a/n/ac 5.0 GHz (1300Mbps x 2) • Smart Connect intelligently selects the fastest WiFi for every device • Dynamic QoS intelligently prioritizes video streaming & gaming • High power amplifiers • Implicit & Explicit Beamforming for 2.4 & 5GHz • Circle® with Disney – Smart Parental Controls • Powerful Dual-Core 1GHz processor with 3 offload processors • ReadySHARE® USB • ReadySHARE® Vault • Customized free URL to set up personal FTP server • VPN support—secure remote access • Guest network access—separate & secure • Denial-of-service (DoS) attack prevention • Memory: 128MB Flash & 256MB RAM • Five (5) 10/100/1000 Mbps Gigabit Ethernet ports -1 WAN & 4 LAN • Two (2) USB ports : 1 USB 3.0 & 1 USB 2.0 port

ACCESS POINTS

NEW

Wireless Access Points	Insight Managed Smart Cloud		ProSAFE® Business 2 x 2 Dual Band
<ul style="list-style-type: none"> Secure SSH • Secure Socket Layer (SSL) Repeater Bridge point-to-point/multi-point Simultaneous bridge & wireless client association Separate bridge and access point 			
Code	WAC505	WAC510	WAC720
Frequency	2.4GHz and 5GHz	2.4GHz and 5GHz	2.4GHz and 5GHz
Wireless Mode (Transmit x Receive)	802.11ac (2x2)	802.11ac (2x2)	802.11ac (2x2)
Maximum Theoretical Throughput	1.2Gbps	1.2Gbps	1.2Gbps
Maximum Throughput (2.4/5GHz)	300/867Mbps (2.4/5GHz)	300/867Mbps (2.4/5GHz)	300/867Mbps (2.4/5GHz)
Power over Ethernet (PoE) IEEE 802.3af	Yes	Yes	Yes
Centralized Management	Insight App, Standalone	Insight App, Standalone	Quad Mode Management*
SNMP	v1, v2c	v1, v2c	v1, v2c
Router Mode	No	Yes	No
Antenna	Internal 3/4dBi (2.4/5GHz)	Internal 3/5dBi (2.4/5GHz)	Internal 5/6dBi (2.4/5GHz)*

* (Standalone, Ensemble™, Controller, and Business Central)

* Three (3) External reverse SMA connectors for 2.4/5GHz antennas



TELEVISION ACCESSORIES

LNB Down Converters

Code	7475	747701	747802	761001	2353	235310
Type	Universal	Quattro	Twin	Quad	Optical (x32)	Optical (x64)
Input Bandwidth	10.7 - 12.75GHz	10.7 - 12.76GHz	10.7 - 12.77GHz	10.7 - 12.78GHz	10.7 - 12.80GHz	10.7 - 12.80GHz
Output Bandwidth	950 - 1950MHz Low Band / 1100 - 2150MHz High Band				950 - 5450	950 - 5450
Wave Length	—	—	—	—	1310nm	1310nm
Feed Type	Offset	Offset	Offset	Offset	Prime Focus	Prime Focus
Gain	58dB	57dB	57dB	58dB	72dB	72dB
Noise	0.3dB	0.3dB	0.3dB	0.3dB	—	—
Local Oscillator	9.75GHz (0KHz - Low Band / 10.6GHz (22KHz - High Band)				9.75GHz Vert / 7.3GHz Hor	
Connector	F Type	F Type	F Type	F Type	FC/PC	FC/PC
Power Supply	12 - 20VDC	12 - 20VDC	12 - 20VDC	12 - 20VDC	12VDC	10-20VDC
Max Consumed	90mA	190mA	170mA	180mA	<250mA	<160mA

TV Antennas

Code	1201	1083	Code	149901	149501
Band	FM	UHF	BOSStech switch	Off / On	On
Gain	1dB	14dB	Power	0 / 12-24VDC	12 - 24VDC
F/B ratio	0dB	20dB	Channels	21 - 60 (470-790MHz)	21 - 69 (470-862MHz)
Length	500mm	805 x 560mm	Gain	17dB	29dB
Wind Speed	130Km/h	130Km/h	Output level	Auto	Auto
			Noise	2dB	2dB
			Beam Width	30°	30°
			Length	1112mm	1112mm
			Wind speed	130Km/h	120Km/h

Current Injector

"L" Wall Bracket

Satellite Dishes

Code	7450	7349	Code	790240	790241	790340	790341
Features	24VDC/1A 10 - 2150MHz Return Losses: ≥10dB	Dimensions: 380x350xØ45mm	Colour	Orange	White	Orange	White
			Size (W x H)	750 x 850mm		850 x 950mm	
			Gain	38.5dB		39.5dB	
			Frequency	10.7 - 12.75GHz			
			Beam Width (-3dB)	2.3°		1.9°	
			F / D Ratio	0.6		0.6	
			Elevation Angle	10 - 80°		10 - 80°	
			Weight	11kg		14.5kg	
			Wind Load (130Km/h)(N)	719.4130(Km/h)(N)		924130(Km/h)(N)	

NEW

TELEVISION ACCESSORIES

DIY

Blister



Breakthrough technology "USOS" (User Selectable Output Signal) for a range of amplifiers with outstanding design with very low noise figure.

- Ch60/Ch69 switch to activate LTE filter
- On/Off switch to activate DC bypass

Amplifier / PSU

Code	4388			
Features	3 In / 1Out + PSU (Blister Pack)			
Input	UHF / BI/II		BI / FM	SAT
Frequency	470-862MHz	174-254MHz	47-108MHz	950-2150MHz
Gain	0 - 15dB	0 - 12dB	—	—
Noise	1.5dB	1.5dB	—	—
Max Amp Thro I/P	40mA	40mA	—	300mA
Power Supply	12 - 24VDC			
Power Consumption	45mA			
IP Rating	IP20			
PSU Supply / Output	196 - 264VAC / 12VDC			
Size (W x H x D)	Amp: 88 x 79 x 42mm / PSU: 88 x 65 x 26mm			

Domestic Amplifiers

DIY

Wide range of domestic amplifiers for MATV applications, featuring high output level and low power consumption.



Blister

- Low noise
- Adjustable gain
- Up to 5 outputs

Power Supply

DIY

These power supplies are designed to be installed inside the building applying power via the co-axial cable.



Blister

- Aesthetic design
- Can be fixed to the wall
- F Connectors

Line Amplifier

Powered through the coaxial cable from the receiver or using a power injector. F Connector



Code	4006
No. of Inputs / Outputs	1 / 1
Frequency	47 - 862MHz
Gain	13dB
Output Level	98dB μ V
Gain Adjustment	0 - 13dB
Noise	4.5dB
Power Supply	24VDC
Consumption	28mA
Size (W x H x D)	63 x 33 x 22mm

Plug-In Attenuator

Male F connector
Chassis made from Zamak



Code	4005
Frequency	5 - 2200MHz
Attenuation	0 - 20dB
Connectors	F-Male
Size (W x H x D)	63 x 33 x 22mm

Code	5522	5523
Features	1In/2 Out+TV	1In/4 Out+TV
Frequency	47 - 862MHz	
Gain Outputs	20dB	16dB
TV Output	12dB	11dB
Gain Adjustment	12dB	12dB
Noise	5dB	5dB
Power on Inputs	—	—
Max Through Current	—	—
Power Consumption	2W	
Mains Voltage	230VAC	
IP Rating	IP20	
Size (W x H x D)	145 x 45 x 35mm	

Code	550101	550402
Features	PSU / 1In / 2 Out	
No of Outputs	2	
Frequency	5 - 862MHz	
Loss 1 Output	1.5dB	
Loss 2 Output	4dB	
Mains Voltage	196 - 264VAC	
Output Voltage	12VDC	24VDC
Output Current	220mA	130mA
Connection	F - Female	
IP Rating	IP20	
Size (W x H x D)	145 x 45 x 35mm	

Line Amplifier

Amplifier supply is fed through the coaxial cable from the receiver or using a power injector.



Code	7485	
Features	Line Amplifier	
Input	MATV	SAT
Output	MATV+SAT	
Frequency	47 - 862MHz	950 - 2150MHz
No. Of Inputs	1	
Gain	-2.5dB	20dB
Output Level	—	112.5dB μ V
Consumption	60mA	
DC Bypass	500 (SAL~ENT)	
Size (WxHxD)	100 x 65 x 27mm	

Signal Filter (LTE)

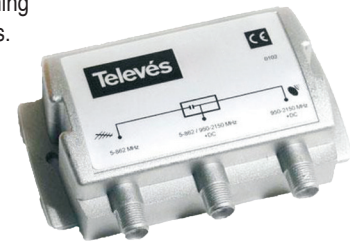
Exceptional performance utilising microcavities and high Q resonant elements, the solution where DTT and LTE signals coexist.



Code	403302
Frequency	5 - 782MHz
Rejected Band	791 - 821MHz
Band Attenuation	> 35dB
IP Rating	IP20
Size (W x H x D)	97x75x26mm
Features	<ul style="list-style-type: none"> • High LTE rejection • Low degradation of DTT

Combiner

Passive device for combining signals coming from different antennas.



Code	7452		745210	
Bands	MATV	IF SAT	MATV	IF SAT
Frequency (MHz)	5-862	950-2150	47-790	950-2150
Insertion loss	2dB	2dB	2dB	2dB
Isolation between I/P	> 20dB			
Max DC pass	—	1000mA	—	1000mA
IP rating	IP20		IP20	
Size (W x H x D)	98 x 65 x 27mm		98 x 65 x 27mm	
Features	<ul style="list-style-type: none"> • Easy F connection • Low insertion loss • Also rejects GSM telephony signals 			

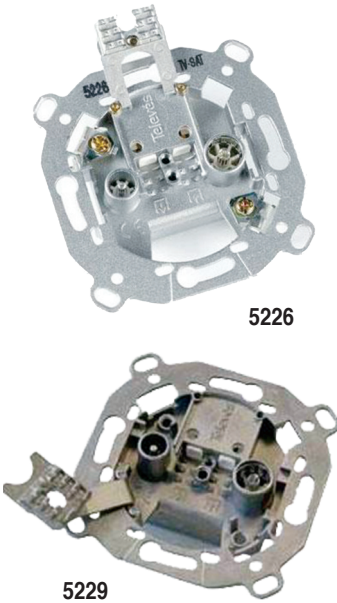
NEW

OUTLETS & FACE PLATES

Outlet Face Plates (3 x 3)

Code	5441	544302	5440	5442
Description	Face plate for TV-R outlet	Face plate for TV-R-SAT outlet	Face plate for TV/R & SAT outlet	Back box for surface mount outlet

Outlets



Code	Tap Losses (dB)										
	Band	Return	FM	VHF	UHF	IF SAT		Insertion Losses (dB)		DC Pass	
	MHz	5 - 65	87.5-108	125-470	470-862	950-2150	2150-2400	MATV	SAT	(350mA)	
5226 & 522610	TV/FM	0.6dB				-		-	-	-	-
	SAT	-				1.5dB	-	-	-	SAT to In	
524605	TV	< 8dB	4.5dB		> 9dB		-	-	-	-	
	FM	< 8dB	4.5dB		> 9dB		-	-	-	-	
	SAT	< 8dB	> 6dB		1.5dB		-	-	-	SAT to In	
5229	TV/FM	4dB		5dB		-	-	-	-	Out to In	
	SAT	4dB		5dB		-	-	-	-	Out to In	
5228	TV/FM	8.5dB		9dB		-	3.5dB	5dB	In to Out		
	SAT	7.5dB		10dB		-	3.5dB	5dB	Out to In		
5227	TV/FM	13dB		13.5dB		-	1.2dB	2dB	In to Out		
	SAT	13dB		14dB		-	1.2dB	2dB	Out to In		
5236	TV/FM	20dB		24dB		-	0.6dB	1.2dB	In to Out		
	SAT	20dB		24dB		-	0.6dB	1.2dB	Out to In		

NEW

CABELCON CONNECTORS

Compression Connectors

Grounding Block

Code	CX 3 3.7	CX 3 7.5	F-56 5.1 W	F-56 7.0 QM	F-81
Description	Compression Connectors for 210603 Coax Cable	Compression Connectors for 214901 Coax Cable	F-Type (RG6U), Self Install No Comp. Tool required	F-Type (For T200 7mm Coax Cable)	Dual Earth Grounding Block F - Type

Connectors

Spanner/Cable Stripper

RG11

Current Injector

Code	F-81 HQ NITIN CC	F SC-59 CX3 5.1	98501040	9349	7450
Description	F-Type Barrel Connector	Push-On Quick F-Type Connector	W/HEX 11mm Spanner with Cable Stripper	F Type Screw on	24VDC/1A, 10 - 2150MHz Return Losses \geq 10dB



RF SPLITTERS & TAPS

Splitters (5 - 1000MHz Indoor)				Splitters (5 - 2400MHz Indoor)				Splitters - (5 - 2400MHz Indoor) DC 1 Amp 2 Way Pass					
Code	No. Of Outputs	Loss (dB) I/P to O/P	Rejection Between Outputs	Code	No. Of Outputs	Loss (dB) I/P to O/P		Rejection Between Outputs	Code	No. Of Outputs	Loss (dB) I/P to O/P		Rejection Between Outputs
						MATV	IF SAT						
4530	2	4	> 30	5150	2	4	5	> 20	5155	2	4	5	> 20
4532	3	6	> 30	5151	3	7	9	> 20	5156	4	7.5	10	> 20
4531	4	8	> 30	5152	4	7.5	10	> 20	5157	5	10	10	> 20
4534	6	10	> 28	5153	5	10	12	> 20	5159	8	11	13.6	> 34
4533	8	11	> 28	7441	6	12	16	> 17					
				7406	8	13	18	> 18					



SCATV Taps with F Connector (5 - 1000MHz Indoor)

Code	No. Of Outputs	Loss (dB) I/P to O/P	Tap Loss (dB) I/P to O/P	Code	No. Of Outputs	Loss (dB) I/P to O/P	Tap Loss (dB) I/P to O/P
4515	1	≤ 2.6	6	4567	2	≤ 1	26
4516	1	≤ 2.4	8	4571	4	—	8
4517	1	≤ 1.5	11	4572	4	≤ 4	11
4518	1	≤ 1.5	14	4573	4	≤ 2.5	14
4519	1	≤ 1.3	17	4574	4	≤ 2	17
4560	2	—	≤ 4.5	4575	4	≤ 1	20
4561	2	≤ 2.5	8	4576	4	≤ 0.5	23
4562	2	≤ 2	11	4577	4	≤ 0.5	26
4563	2	≤ 2	14	4578	8	—	12
4564	2	≤ 1.5	17	4579	8	—	14
4565	2	≤ 1	20	4580	8	≤ 3.5	17
4566	2	≤ 1	23	4581	8	≤ 2	20

SMATV Taps with F Connector (5 - 2400MHz Indoor)



Code	No. Of Outputs	Loss (dB) I/P to O/P		Tap Loss (dB) I/P to O/P		Rejection (dB) Tap to Tap MATV/IF
		MATV	IF SAT	MATV	IF SAT	
5130	2	2.5	2.6	12	12	> 30
5131	2	1.2	2	15	15	> 30
5132	2	1.5	1.5	18	19	> 30
5133	2	1	1.5	23	23	> 30
5134	2	1	1	27	27	> 30
514110	4	4.5	5	12	12	> 25
5142	4	2.3	3.4	16	16	> 25
5143	4	1.5	2.5	19	20	> 20
5144	4	1	2	24	24	> 20
5145	4	1	1.5	28	29	> 20
5135	6	3.3	5	18	18	> 20
5136	6	2	4	20	20	> 20
5137	6	1.5	2.5	24	24	> 20
5146	8	3.3	5	18	18	> 21
5147	8	2	4	20	20	> 21
5148	8	1.5	4	25	25	> 21



R.F. AMPLIFIERS

Indoor Amplifiers



537302



5317

Code	537302		5317		
Features	MATV (Terrestrial) 1In / 1 Out (VHF / UHF)		SMATV 2 In / 2 Out (Terrestrial + Satellite)		
Input	VHF	UHF	MATV/SAT1	SAT2	
Output	VHF	UHF	MATV/SAT1	MATV/SAT2	
Frequency	47 - 454MHz	470 - 862MHz	5 - 30MHz	48 - 862MHz	950 - 2150MHz
Gain Hi / Lo	20 / 30dB	27 / 37dB	-5dB	30dB	33 - 38dB
Gain Adjustment	0 - 20dB	0 - 20dB	—	0 - 20dB	0 - 20dB
I/P Equaliser	—	—	—	0 - 20dB	0 - 15dB
Noise	7dB	7dB	—	8dB	10dB
Power On I/P	24VDC	24VDC	—	—	—
Max Amp On I/P	70mA	70mA	—	—	—
Power Consumption	7W	7W	12W		
Mains Voltage	207 - 253VAC		194 - 264VAC		
IP Rating	IP20		IP20		
Size (W x H x D)	180 x 110 x 55mm		180 x 110 x 55mm		

MATV launch amplifiers, designed for small and medium size distribution networks. To be used as MATV head-end. Featuring a Low/High gain switch guaranteeing a wide dynamic margin with low noise figures.

- Split band amplification
- 20dB independent attenuators (PIN diode for each band)
- Automatic DC power through inputs
- Test output (-30dB)
- Gain switch High / Low

Amplifiers



Code	5338	533501			
Features	MATV 1In / 1Out	SMATV 1In / 1 Out / Return Path			
Input	MATV	(5 - 30MHz) / MATV / SAT			
Output/	MATV	Forward		Return	
Transmission Path		Passive	Active	MATV	IF SAT
Frequency	47 - 862MHz	5 - 60MHz	5 - 65MHz	47-862MHz	950 - 2150MHz
Gain Hi / Lo	41 / 53dB	-4dB	20dB	40 - 53dB	42dB
Gain Adjustment	0 - 18	—	0 - 20dB	0 - 18dB	—
I/P Equaliser	0 - 18dB	—	—	0 - 18dB	0 - 12dB
Noise	10dB	—	10dB	10dB	13dB
Power On I/P	9VDC	—	—	—	—
Max Amp On I/P	700mA	—	—	—	—
Power Consumption	11W	11W			
Mains Voltage	196 - 264VAC	196 - 264VAC			
IP Rating	IP20	IP20			
Size (W x H x D)	264 x 142 x 50mm	264 x 142 x 50mm			

High performance amplifiers, offering functionality and power, designed to have direct access to all configuration parameters of the equipment

- Push-Pull and Power-Doubling technology amplifiers
- Gain switch High / Low
- High efficiency power supply
- Optimised for reduced noise levels
- Up to 129db μ V in VHF / UHF band
- LED signaling RF presence
- Configurable with 2 outputs

Outdoor Amplifier & Power supply



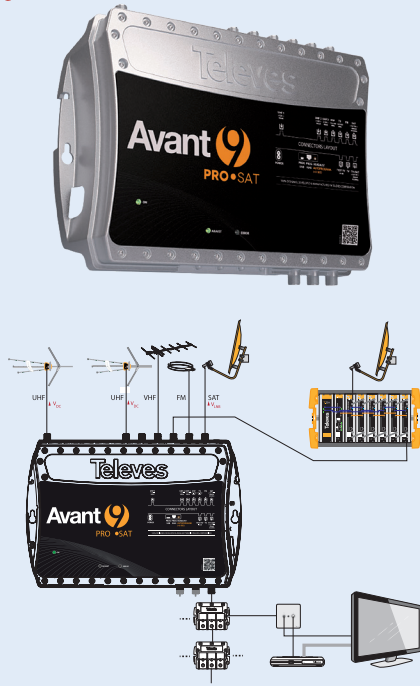
Code	4513		Code	5456
Features	CATV		Features	Outdoor Power Supply
Transmission Path	Return	Forward	Frequency	5 - 862MHz
Frequency	5 - 65MHz	87.5 - 862MHz	Output Volts	57VAC
Gain Hi / Lo	12dB	36dB	Max Current	5A
Gain Adjustment	0 - 20dB	0 - 20dB	Power Consumption	375W
I/P Equaliser	—	0 - 20dB	IP Rating	IP67
Noise	—	8dB	Mains Voltage	195 - 264VAC
Power Supply	40 - 60VAC		Size (W x H x D)	278 x 207 x 100mm
Max Through Current	5A			
Power Consumption	15W			
Mains Voltage	—			
IP Rating	IP67			
Size (W x H x D)	278 x 207 x 100mm			

Amplifier for outdoor CATV applications. The devices have to be powered through the co-axial line

- Weatherproof aluminium housing
- Line powered input / output
- Pre-emphasis, attenuation, gain in forward and return path
- 5/8 Connectors

NEW

R.F. AMPLIFIERS



Avant9 Pro IP20 - (FM-VHF-MATV-UHF-UHF-UHF)

Code	532021				
Description	Programmable Headend Amplifier				
Type	6 In / 1 Out				
Inputs	UHF1, 2, 3	BIII / DAB	VHF/UHF	FM	FI SAT
Frequency	470-790MHz	174-260MHz	120-862MHz	87-108MHz	50-2150MHz
Gain	51dB	45dB	36 / 37dB	30dB	45dB
No. of Channels	0-7	—	—	—	—
Slope Adjustment	0 - 5dB	—	—	—	0 - 15dB
Optimal Input Level	60-105dBμV	63-88dBμV	72/74dBμV	71-96dBμV	65-95dBμV
Gain Regulation	0 - 20dB	0-25dB / Off	—	0-25dB / Off	0-30dB
Manual Regulation	±5dB	±5dB	—	±5dB	—
Output Level	118dBμV	118dBμV	118dBμV	118dBμV	—
Noise	10dB	10dB	—	10dB	9dB
Rejection	>30 (±16MHz)	>20 (470MHz)	—	>20 (±20MHz)	>40 (87-862MHz)
Power on Inputs	12VDC	—	—	—	13/17(22/0kHz)
Max Current Input	50mA (Auto)	—	—	—	400(remote) / 200(local)
Maximum Power	18,3W (ref.532031) / 11,4W (ref.532021) / 17,4W (ref.532011) / 10,4W (ref.532001)				
Max. Operating Temp.	45°C				
Test Output	-20dB				
Power Supply	196 - 264VAC / 50 - 60Hz				
Size (W x H x D)	273 x 203 x 57mm				
Weight	1620kg				

T12 Series Channel Amplifier

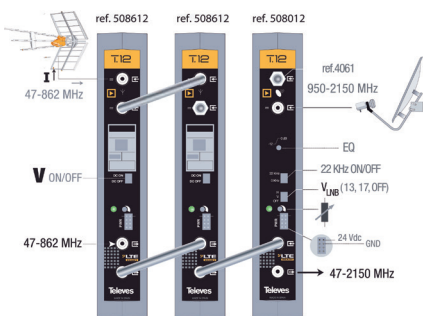
Code	508612-25	508612-35	508612-45	508612-55
Preset Channel	25	35	45	55
Can be Retuned	21-24/26-30	31-34/36-40	41-44/46-50	51-54/56-60
Frequency	470 - 865MHz			
Bandwidth	8MHz			
Gain	50dB			
Adjustable Gain	30dB			
Equalisation	—			
Vout A	125 - 111dBμV			
Vout D	118 - 111dBμV			
I Max	100mA			
Supply	24VDC			
Amplitude Clipper	3dB			

Highly reliable high performance channel amplifiers with improved screening efficiency.

- Line power switch allowing the powering of pre-amplifiers
- Gain Adjustment
- All accessories included (RF Links, Power leads etc)
- Compatible with previous versions
- Amplifiers are set to centre preset channel but can be retuned as indicated.

Retuning

Code	T12RET-*
Description	If retune is required, use closest preset channel code and then add retune code T12RET-* (as a separate code). * Add channel number required. Example: (Channel required: 37) 508612-35 and T12RET-37



T12 Series Power Supply

Code	549812
Mains Voltage	195 - 264VAC
Output Voltage	24VDC
Max O/P Amps	2.5A
Max O/P Watts	60W
Consumption Watts	70W
IP Rating	IP20
Size (W x H x D)	70 x 198 x 92mm
• Switch Mode power supply for T12 series devices	
• Up to 24 amplifiers can be powered by a single unit.	



T12 Series Accessories

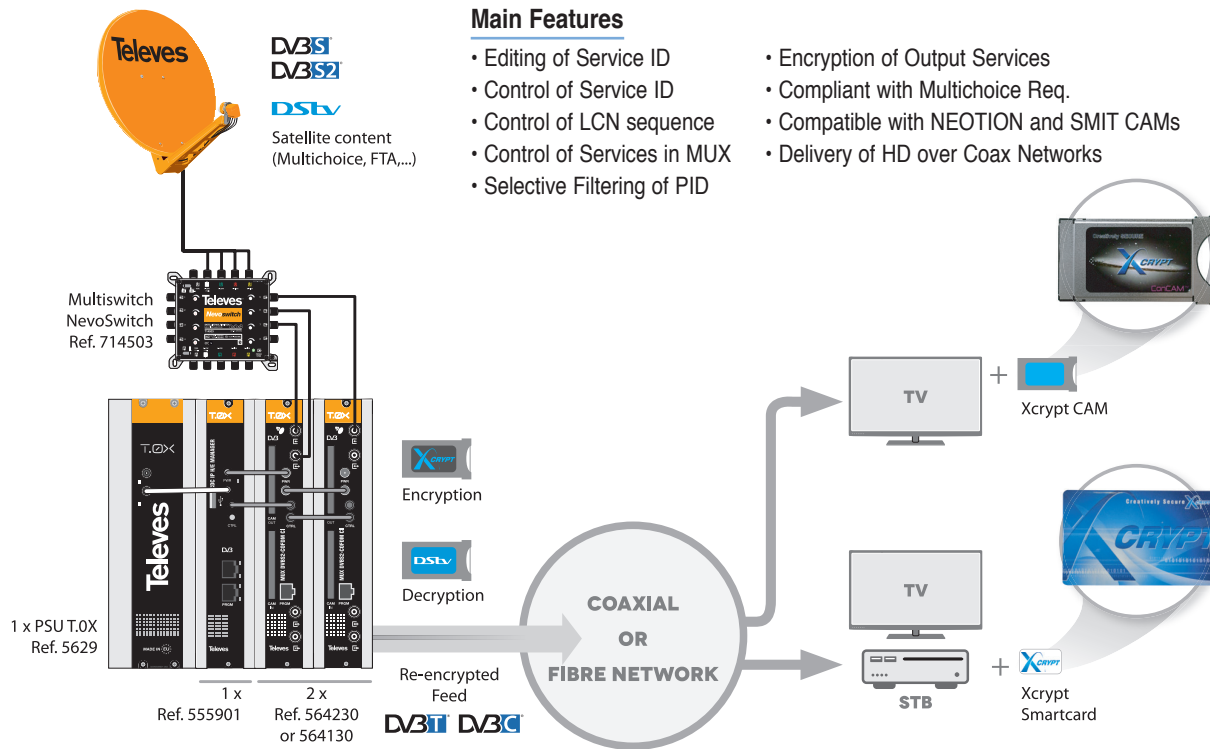
Code	Description
5301	Subrack 5U high for 19" rack applications
507202	Lockable cabinet 498mm (PSU +10 x T12) Size (wxhxd) 610 x 295 x 235mm DIN rail mounting
T5069	Lockable cabinet 648mm (PSU +14 x T12) Size (wxhxd) 760 x 295 x 235mm DIN rail mounting
5673	Blanking Plate T.O.X Size: 50mm x 5U



DIGITAL VIDEO SYSTEMS

NEW

COMMERCIAL & HOSPITALITY NETWORKS



NEW

SMATV TRANSMODULATORS TOX RANGE



Code	553702	563301	564201	564230
Xcrypt Encryption	No	No	No	Yes
No. Input Tuners	1	1	3	3
No. CI Slots	1	1	1	2
Output Modulation	RF Analogue (PAL)	DVB-T	DVB-T	DVB-T
No Services / Module	2 Max	5 Max	5 Max	5 Max
Modulation DVB-S2	QPSK / 8PSK			
Modulation DVB-S	QPSK			
Symbol Rate DVB-S2	10 - 30MBaud			
Symbol Rate DVB-S	2 - 42.5MBaud			
Impedance	75 Ohm			
LNB Powering	13/17/OFF - 22kHz (on/off) VDC			
CI CAMs Included	No			
In/Out Connectors	F- Type			

Note: For Mounting Frame order 5301 and Power Supply 5629

NEW

XCRYPT RE-ENCRYPTION CAMS & STB

Code	XCONCAM-ADV	XCARD-ADV	XPROSTB-URC-T	XPROSTB-T	XSVRCAM-ADV
Description	Xcrypt Consumer CAM, Advanced Security	Xcrypt Consumer Smart Cards for XCONCAM and XPROSTB-URC-T (V2)	Xcrypt STB with DVB-C and DVB-T, Univ Remote, HDMI Cable Advanced Security	Xcrypt STB with DVB-C and DVB-T, Advanced Security (incl. Smart Card) (V1)	Xcrypt Server CAM, Incl. Headend CAS Smart Card, Advanced Security

NEW

MATV HEADEND TOX RANGE



Power Supply TOX

Code	5629
Mains Voltage	196 - 264VAC
Frequency	50/60Hz
Consumption	140W
IP Rating	IP20
Size (W x H x D)	75 x 216 x 175mm
Output Voltage	24VDC
Max Current	120W
Max Current/ Output	5A
Max Power	4A
Efficiency	> 85%

High power switched mode power supply. Flyback high efficiency type.

- 2 Outputs with LED indication of output voltage status
- Short circuit and Overload protected • Output voltage variation protection
- VDC Outputs • Status LED's • Mains socket (196 - 264VAC)



Analogue / Digital Twin Channel Processor TOX

Code	564901
Frequency Range	47 - 862Mhz
Input Level	50 - 80dBuV
Output Level	80 +- 5dBuV
S/N Ratio	52dB
Impedance	75 Ohm
Filter Bandwidth	6/7/8Mhz
Regulation Margin	15dB
Powering	12V / 24V
Frequency Steps	125 / 166Khz (D) 250Khz (A)

Processes 2 channels, analogue or digital, functions as a convertor channel (using different input and output channels) or as an amplifier (with the same input and output channel)

- RF Input / Output • Power / Control BUS • Program unit / PC socket



A/V - PAL Stereo Twin Analogue Modulator TOX

Code	5806
Frequency Range	47 - 862Mhz
Input Level	1 vpp @ 75 Ohm
Output Level	80 +- 5dBuV
S/N Ratio	52dB
Impedance	75 Ohm
Frequency Steps	250 Khz
Regulation Margin	15dB
Consumption	300mA
IP Rating	IP20
Size (W x H x D)	50 x 216 x 175mm
Powering	24VDC

- Generates one or two analogue channels from 1 / 2 audio / video signals
- Configuration of video and audio parameters that allows adapting the signal to any standard
- Power / Control BUS • Program unit / PC socket • RF Input



RF Headend Amplifier TOX

Code	5575
Frequency Range	47 - 862Mhz
Noise	11dB
Impedance	75 Ohm
Supply	24VDC
Consumption	450mA
IP Rating	IP20
Size	50 x 216 x 175mm
Output Level	120dBuV
Gain regulation	0 - 20dB
Return Losses	8dB
42CH Genelec	105dBuV

- High power amplifier for signals processed in a T.OX headend
- Low distortion of second and third order allowing high output voltage (typical values of 120dBμV)
- Test output • Power BUS • Gain Regulation • RF Input / Output



Twin Encoder IP / HDMI / AV to IP / COFDM 1 MUX TOX

Code	563852
Frequency Range	47 - 862Mhz
Max Output Level	115dBuV
Output Type	QAM/COFDM/IP
IP Input	2 Ports RJ45 Switch
HDMI (Video & Audio)	2 Ports
Video	2 x 3 RCA
Powering	24VDC
Consumption	20.4W
IP Rating	IP20

Device with two operation modes: as an AV - IP / RF Encoder converting A/V signals into an IP stream and multiple RF signals (DVB-T or DVB-C), or as an AV/IP - RF Encoder converting A/V signals and IP streaming services into one multiple RF channel (DVB-T or DVB-C).



Headend management Unit CDC IP TOX

Code	5559
TOX Powering	24VDC
Interface 1	RS-482
CPU	ARM920T ARM
Operating System	Linux Kernel 2.6.16
Memory SDRAM	64MB
Memory Flash	8MB
Interface 2	RJ45
Consumption	300mA
IP Rating	IP20
Size (W x H x D)	232 x 140 x 90mm

Device used for the remote control and monitoring of a T.OX Televés headend. The IP-network access methods are implemented using an Ethernet 10/100 Mbps interface.



Programming Unit

Code	7234
<ul style="list-style-type: none"> • Allowing full configuration for Avant Amps & TOX, TO5 Modules • Built in memory for copy / paste operation • Backlite display • RJ45 cable included 	



PC Configuration Software

Code	216801
<ul style="list-style-type: none"> • Software for all programmable devices - except Avant 3 • Supplied complete with: <ul style="list-style-type: none"> - RS232-RJ45 cable for PC to device - USB RS232 Adaptor - USB Extender Cable 	



OPTICAL HEADEND TOX RANGE

NEW



Optical Transmitters (1310nm)

Code	233311
Frequency Range	87 - 2150MHz
Max I/P Level MATV	87dBuV / 27dBm
Max I/P Level SAT IF	80dBuV / 20dBm
Wavelength	1310nm
Optical Power	10dBm
Optical Connector	SC/APC
Power Supply	12 - 24VDC
Consumption @ 24V	140mA
IP Rating	IP20
Size (W x H x D)	50 x 216 x 175mm

Produces an optical signal in the 1310 nm-window modulated by the input RF SMATV signal (54MHz-2150MHz). The optical output power is 10dBm.



Optical Trasmmitter (1550nm)

Code	234304
Frequency Range	87 - 2150MHz
Max I/P Level MATV	85 / 25 dBμV/dBmV
Max I/P Level SAT IF	80 / 20dBμV/dBmV
Noise @ 850MHz	- 150dBm/Hz
Wavelength	1550nm
Optical Power TX	2.5 / 4dB
Optical Connector	SC / APC
Power Supply	12 - 24VDC
IP Rating	IP20
Size (W x H x D)	50 x 216 x 175mm

Transmitters that generate an optical output of 1310 or 1550nm, modulated by the incoming RF signal.



Optical Receiver

Code	2335
Wavelength	1200 - 1600nm
Detected Bandwidth	1 - 3000MHz
Optical Power RX'ed	4 / 6dB
Optical Connector	SC / APC
Frequency Range	≥ 11MHz
Max O/P Level MATV	93/33 dBμV/dBmV
Max O/P Level SAT IF	90/30 dBμV/dBmV
Regulation Margin	0 - 18dB
Power Supply	12 - 24VDC
IP Rating	IP20
Size (W x H x D)	50 x 216 x 175mm

Receivers that deliver the original RF signal that has previously been converted by a fibre optic transmitter.



Optical Receiver + Amplifier (Outdoor)

Code	231201
Wavelength	1200-1600nm
Optical I/P range	-5 to 2dB
Max Optical I/P level	3dB
Output frequency	87 - 862MHz
Max MATV O/P level	104dBμV
Impedance	75Ω
Mains Voltage	196 -264VAC
Consumption	180mA (36VA max)
Power	18W
IP rating	IP61
Size (W x H x D)	232 x 140 x 90mm

Connections

- RF output and input
- FO input forward path
- FO output RF path
- Attenuators
- Power
- Test

This receiver is intended to be used as a launch amplifier in a final coaxial distribution network.



Optical Receiver (Indoor)

Code	23111
Wavelength	1550nm
Max Output Level	84dBuV
Output Power RX	neg 10 to 2dBm
Optical Connector	SC/APC
Frequency (Output)	87 - 2150MHz
Impedance	75 Ohm
Power Supply	196 - 264VAC
Consumption	19mA (1.7WMax)
IP Rating	IP20
Size (W x H x D)	145 x 60 x 35mm

Connections

- RF output
- sc/apc optical connector
- Mains socket

Designed for FTTH applications, the receiver converts the input optical signal into a stable and reliable RF signal.



Optical Amplifier (1550nm) - 8 Outputs

Code	234228
Input Power	-3 to 10dBm
Input Connector	SC / APC
Output Power	20 ± 0.8dBm
Output Connector	SC / APC
Wavelength	1550nm
Powering	24VDC
Consumption	700mA (max)
IP Rating	IP20
Size (W x H x D)	75 x 216 x 175mm

Optical amplifier (EDFA) intended for use with the signal from an optical transmitter with a wavelength of 1550nm



Optical Amplifier (1550nm) - 1 Output

Code	234220
Input Power	-3 to 10dBm
Input Connector	SC / APC
Output Power	20 ± 0.8dBm
Output Connector	SC / APC
Wavelength	1550nm
Powering	24VDC
Consumption	410mA (max)
IP Rating	IP20
Size (W x H x D)	75 x 216 x 175mm

Optical amplifier (EDFA) intended for use with the signal from an optical transmitter with a wavelength of 1550nm



Optical Splitters

Code	234401	234501	234601
No. Outputs	8	16	32
Wavelength	310 - 1550nm		
Optical Connector	SC/APC		
Insertion Losses	11dB	13.7dB	17.5dB
Return Losses	0.8dB	1.2dB	2dB
IP Rating	IP20		
Size (W x H x D)	75 x 216 x 175mm		

Passive optical splitters 8, 16, and 32 outputs for use in optical fibre optic networks

NEW

OPTICAL HEADENDS



Optical Fibre / RF Converter (Satellite+Terrestrial)

The kit consists of:

- 1 x LNB offset
- 1 x ODU32 RF to Optical signal converter
- 1 x AC/DC power adapter
- 1 x 2m Low loss cable 50Ω / N connectors
- 1 x Protective sleeve for the connector
- 1 x Mast support for the ODU32

Sections	Code	236801 (1310nm) / 236810 (1550nm)			
Optical	Wavelength	1310/1550nm			
	Optical Power per O/P Connector	6 - 8dBm			
DAB / DVB-T	Input Frequency	DAB / DVB-T	217-230/470-862MHz		
	Impedance		75Ω		
	Input Levels	1 Channel	70-95dBμV		
		4 Channel	90dBμV		
		8 Channel	85dBμV		
	Gain		15-45dB		
	DTT Flatness	In-band	4dB		
In-channel		0.5dB			
AGC Range		25dB			
Noise		10dB			
Supply	OIP3		134dBμV		
	Rejection (950-2150MHz)		20dB		
	Powering Voltage		12VDC		
	LNB power Voltage		6.2VDC		
	Consumption (includes LNB)		500mA		
		SAT	Input Frequency	Vertical / Horizontal	950-3000/3400-5450MHz
			Impedance		50Ω
			Input Level		96-111dBμV
			In-band Gain Flatness	Vertical	4dB
				Horizontal	7dB (3dB slope)
			Gain Flatness	per 30MHz segment	1dB
			AGC Range Min		15dB
			Noise @ Max Gain		12dB
			OIP3(min)		129dBμV
			Rejection 217-862MHz		20dB
		Mechanical	Connectors	Optical O/P	FC/PC
				Satellite I/P	N female
				DVB-T/DAB I/P	F female
				Power I/P	F female
			Weight		545g
			Size (W x H x D)		168 x 160 x 30

NEW

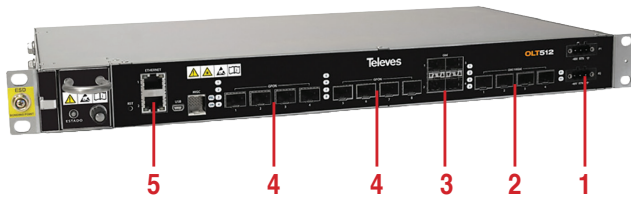
OPTICAL CONVERTERS & ENCLOSURES

	Optical Converter		FTTH Enclosures		
Code	236903	237003	060-244C-QUAD	060-245C-DCSS	060-246-BASE
Description	Quad Type	Quattro Type	Optical Enclosure Cover for Quad GTU	Optical Enclosure Cover for DCSS GTU	Optical Enclosure Base Unit for ONT + GTU
	VDI Rack Boxes				VDI Rack Shelf
Code	Q96544	Q96546	Q96545	Q96547	Q23534
Size	400 x 375mm D200 FM	400 x 500mm D200 FM	400 x 375mm D200 SM	400 x 500mm D200 SM	W400 D200
Mounting	Flush Mount	Flush Mount	Surface Mount	Surface Mount	Shelf
	1U Non-Equipped Frames				Blank Frame
Code	Q98272	Q98274	Q98276	Q98278	Q98280
Description	For 14/Optic Duplex Mid Couplers	For 14/F-Type Connectors	For 14/RJ45 CAT6 Connectors	For 5/RJ45 + 5/F-Type + 5/Mid Couplers	1U Blank Frame

DIGITAL VIDEO SYSTEMS



GPON HEADENDS



Connections

- 1. -48VDC Power
- 2. 4 x 1/10 Gbe uplink port
- 3. 4 x 1Gbe uplink port
- 4. 8 x GPON ports
- 5. 2 x ETH management interface



OLT512 Optical Line Terminal

Code	769401
Downstream / Upstream bit rate	2,488 / 1,244

AES Encryption

ONT per PON (512 subscribers)	>64
Logical Range	60km
Maximun Differential Distance	20km
GPON redundancy	Type B

General

Temperature conditions	5 to 45°C
Relative Humidity Range	95%
Power supply	-40.5 to -57.0VDC
Dimensions (WxHxD)	483 x 44,45 x 248mm

High Power Optical Amplifier (EDFA) 1U 1550nm 8 Way

Code	769610
No of Ports	1 RF Overlay @ Optical IN, 8 GPON @ RF Overlay DATA, 8 (GPON + RF Overlay) @ Optical

Operating Wave Length	1310+ ₂₀ @ Upstream, 1490 + ₂₀ @ Downstream, 1548...1565 @ RF Overlay
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Input RF Overlay	(- 10 ... +10)
------------------	------------------

Output RF Overlay	20 @ 1550nm
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Uniformity	0,5
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Noise Figure	5(pin= 0dB @ 1550nm)
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Insertion Loss	Greater 1
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Optical Connetor	SC/APC
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Return Loss	Less 40
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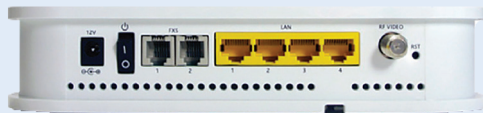


This device consists of an amplifier, a WDM, and a double power supply. Designed to mix the RF Overlay service with GPON and simultaneously power the OLT.

The optical amplifier amplifies a 1550 nm optical signal, with an output power of 20 dBm. Based on YEDFA (Erbium and ytterbium doped fiber) technology, it provides a high gain, a higher optical power, and a low noise factor.



ONT FOR GPON SOLUTIONS



Technical Characteristics 769501

Code	769501	769502	769504	769506	769507	769508 / 769598
Type	Office	Home	Office	Home	Basic	Standard
RF Overlay	X	✓	✓	X	X	✓
Wi-Fi (802.11 b/g/n) (2x2) 2.4	✓	✓	✓	✓	X	X
Wi-Fi (802.11 b/g/n/ac) (2x2) 2.4/5	X	X	✓	✓	X	X
USB	2	2	2	2	X	X
FXS ports	2	2	2	2	X	X
ETH 10/100/1000BASE-T ports	4	4	4	4	1	1
NAT/NAPT	✓	✓	✓	✓	X	X
Firewall	✓	✓	✓	✓	X	X
VPN pass-through	✓	✓	✓	✓	X	X
PPPoE terminal	✓	✓	✓	✓	X	X
OMCI	✓	✓	✓	✓	X	X
TR-069	✓	✓	✓	✓	X	X
CLI	✓	✓	✓	✓	X	X
WebGUI	✓	✓	✓	✓	X	X

General

Temperature	15 to +45°C	15 to +45°C
Relative Humidity	0-95%	0-95%
Power	19W	7W
Dimensions (WxHxD)	210 x 40 x 210mm	142 x 30.5 x 112mm

NEW

OPTICAL ACCESSORIES



ABS4WFO



PLC8WFO

Optical Splitters (ABS Range) - Connector Type: FC/PC

Code	ABS2WFO	ABS3WFO	ABS4WFO	ABS8WFO	ABS16WFO
Type	1x2	1x3	1x4	1x8	x16
No. of Outputs	2	3	4	8	16
Typical Loss	3.6dB	7.0dB	10.2dB	13.3dB	16.5dB

Optical Splitters (PLC Range) - Connector Type: FC/PC

Code	PLC8WFO	PLC16WFO	PLC32WFO	-	-
Type	1x8	1x16	1x32	-	-
No. of Outputs	8	16	32	-	-
Typical Loss	10.2dB	13.5dB	17.4dB	-	-

- PLC technology optical splitters offer
- High channel uniformity
- Low Loss optical splitter
- Low losses and wide operating wavelength
- Single input with up to 16 outputs available
- Wide operating wavelength
- Single input dual output



CWDM-FC/PC

Code	Wavelength	Insertion Loss	Variation	Directivity	Return Loss
CWDM-FC/PC	1310 - 1490nm	0.4dB	≤0.3dB	>60dB	>50dB
CWDM-SC/APC	1310 - 1490nm	0.4dB	≤0.3dB	>60dB	>50dB

Optical Toolkits



KF6300



FKL08C

1 x Kevlar Cutter (FKC-1)	1 x Black Marker
1 x Fibre Stripper (FCFS-2)	1 x 7" Pliers
1 x Round Cable Slitter (FHW-315)	1 x 6" Needle Nose Plier
1 x Fibre Jacket Stripper	1 x 6" Side Cutter
1 x Wire Rope Cutter (FHWC-6)	1 x 8" Adjustable Wrench
1 x Round Cable Cutter (FHW-19C)	1 x Mini Hacksaw
1 x Carbide Fibre Scribe (FTTK-174A)	1 x 9Pcs Folding Allen Key Set
1 x 6Pcs Screwdriver Set	1 x Screwdriver S/D #1 x 100mm
1 x Screwdriver S/D 5x 100mm	1 x Screwdriver S/D #2 x 100mm
1 x Fibre Cleaning Wipes	1 x Screwdriver S/D 6 x 100mm
1 x Blow Brush (MS-15C)	1 x 4Oz Bottle of Alcohol
1 x Tweezer	

1 x Kevlar Cutter	1 x Emergency Lamp
1 x Optic Stripper (FCFS-2)	1 x Blow Brush (MS-15C)
1 x Fibre Jacket Stripper (FHW-109)	1 x 3.5m Tape Measure
1 x JETECH 8 Pcs Set	1 x Precision Nipper
1 x Round Cable Cutter (FHW-19C)	1 x Black Marker
1 x Wire Rope Cutter	1 x Utility Knife
1 x 7" Plier	1 x 4Oz Bottle of Alcohol
1 x 6" Needle Nose Plier	
1 x 6" Side Cutter	
1 x 6 Pcs Screwdriver Set	
1 x 8" Adjustable Wrench	

NEW

OPTICAL ACCESSORIES

	Attenuators (Db)		Fibre Adaptor	Fibre Patch Leads	
Code	FC/PC-A*	SCAPC-A*	FCPC-ADPT	FCPC-PG*	SC/APC *M Y
Description	*Add to code dB Required: 5, 10, 15, 20	*Add to code dB Required: 5, 10, 15, 20	FC/PC Single mode, Simplex, Ceramic Sleeve	*Add length (m): 1, 5, 10, 20, 40, 50, 75, 100, 200	Simplex, SC/APC-SC/APC *Add length (m): 0.5,1,3,5,10
	SC/APC Midcouplers		Panel Box	Face Plates	
Code	MID-SASASM	MC-DADASM	HTG000005	HTG0000024*	J10-FACEPL
Description	Simplex SC/APC - SC/APC	Duplex SC/APC - SC/APC	Fibre Patch (1U)	24 x SC/APC Slots. *Add: S - Simplex, D - Duplex	Adapter 32 way FC/PC Face Plate (1U)

NEW

SAT/RF SWITCHES



Code	732190
Supply Volts	196 - 264VAC
Output Volts	12VDC
Max Amps	1.6A
Weight	400g
Size (W x H x D)	140 x 383 x 30mm
IP Rating	IP20

Code		714501	714502	714503	714504	714505	714506	714507	714509
Type		5 x 5 x 4	5 x 5 x 6	5 x 5 x 8	5 x 5 x 12	5 x 5 x 16	5 x 5 x 24	5 x 5 x 32	5 x 5
Frequency	SAT	950-2400MHz	950-2400MHz	950-2400MHz	950-2400MHz	950-2400MHz	950-2400MHz	950-2400MHz	950-2400MHz
	RF	47 - 862MHz	47 - 862MHz	47 - 862MHz	47 - 862MHz	47 - 862MHz	47 - 862MHz	47 - 862MHz	47 - 862MHz
Output Level	SAT	105dBμV	105dBμV	105dBμV	105dBμV	105dBμV	105dBμV	105dBμV	110dBμV
	RF	92dBμV	92dBμV	92dBμV	92dBμV	92dBμV	95dBμV	92dBμV	110dBμV
Through	SAT	1.5 - 4dB	1.5 - 4dB	1.5 - 4dB	3 - 8dB	3 - 8dB	10 ± 5dB	6 - 16dB	—
Losses	RF	2dB	2dB	2dB	4dB	4dB	7 ± 3dB	9dB	—
Gain	SAT	—	—	—	—	—	—	—	25dB
	RF	—	—	—	—	—	—	—	27dB
	Regulation	—	—	—	—	—	—	—	10dB
	Slope	—	—	—	—	—	—	—	0 - 7dB
Tap Losses	SAT	1 / - / - / - dB	1 / - / - / - dB	1 / - / - / - dB	1 / 2 / - / - dB	1 / 2 / - / - dB	7dB	1 / 2 / 5 / 8 dB	—

NEW

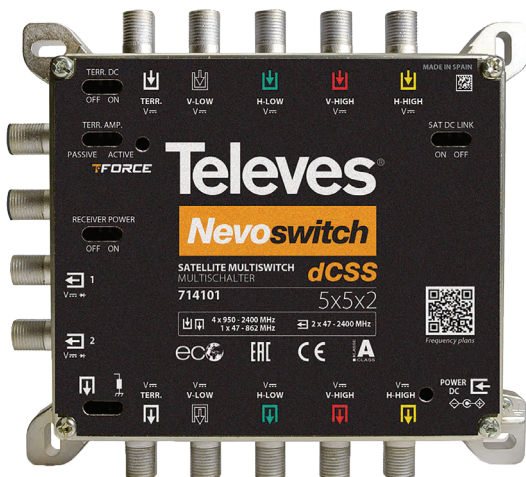
SAT/RF MULTISWITCHES



Code		714901	714902	714903	714904	714905
Type		5 x 5 x 5	5 x 5 x 5	5 x 5 x 5	5 x 5 x 5	5 x 5
Frequency	SAT	950 - 2400MHz	950 - 2400MHz	950 - 2400MHz	950 - 2400MHz	950 - 2400MHz
	RF	47 - 862MHz	47 - 862MHz	47 - 862MHz	47 - 862MHz	47 - 862MHz
Through Losses	SAT	1.5± 0.5dB	1.5± 0.5dB	1.5± 0.5dB	1.5± 0.5dB	4 ± 1dB
	RF	1.5± 0.5dB	1.5± 0.5dB	1.5± 0.5dB	1.5± 0.5dB	4 ± 1dB
Tap Losses	SAT	15 + 3dB	17 + 3dB	21 + 3dB	26 + 3dB	—
	1-8/9-16/17-24/25-32	RF	12 ± 1dB	15 ± 1dB	20 ± 1dB	25 ± 1dB
Isolation		> 25				
DC Pass		In-Out / Out-In				
Consumption	PSU	40mA	40mA	40mA	85mA	105mA
	SAT	40mA	40mA	40mA	40mA	40mA
Weight	STB	365g	400g	400g	765g	800g
Size (W x H x D)		137 x 120 x 30mm			137 x 253 x 30mm	
IP Rating		IP20				

NEW

NEVOSWITCH dCSS SATELLITE MULTISWITCH



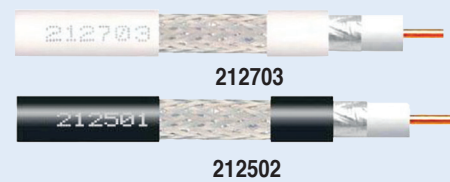
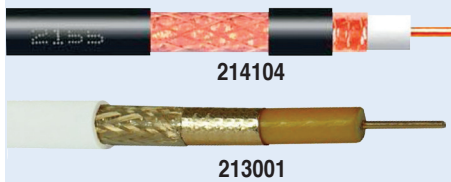
Technical Specifications

Code	714121	714122
SAT IN		
Frequency Range	950-2150MHz	
Input Level	70-100dBμV	
Through losses	2dB	
Cross-polarity Isolation	>30	
DTT IN		
Frequency range	47-862MHz	
Input level	65-110dBμV (active: 70-95dBμV)	
Terr. trunk power	10-20V / 500mA	
Through losses	<2.5dB	
dCSS OUT		
No. of dCSS user outputs	2	4
Output modes	SCR I/II, Legacy	
dCSS channel bandwidth	46	
dCSS user bands	2 x 16	
dCSS standard	EN50494, EN50607, Sky UK	
Output level	84 ± 2dBμV	

DIGITAL VIDEO SYSTEMS



COAXIAL CABLES



Code	Type	Inner Conductor	Inner Conductor Material	Outer Sheath	Outer Sheath Material	Colour	Petro Jelly Injected	Reel Size/m	Attenuation Max. @ 1750Mhz/100m
210603	RG6U	0.80mm	Copper	5mm	PVC	White	No	100m	0,34dBuV
212502	RG6U	1.13mm	Copper	6.6mm	PE	Black	No	250m	0,25dBuV
212703	RG6U	1.00mm	CCS	6.7mm	PVC	White	No	250m	0,32dBuV
213001	RG6U	1.20mm	Copper	6.9mm	LSFH	Grey	No	100m	0,23dBuV
214104	RG6U	1.13mm	Copper	6.6mm	PVC	White	No	250m	0,25dBuV
214901	RG11U	1.63mm	Copper	10.1mm	PE	Black	Yes	250m	0,18dBuV
215502	RG6U	1.13mm	Copper	6.6mm	PE	Black	No	250m	0,25dBuV
CX-RG6-60	RG6U	1.02mm	CCS	6.9mm	PVC	White	Yes	100m	0,27dBuV
CX-RG6-60-DUAL	RG6U	1.02mm	CCS	6.9mm	PVC	White	Yes	250m	0,27dBuV

TV ACCESSORIES

9.5mm Ø Coaxial TV Plug - 2 per Blister Pack				Jack Boxes		9.5mm Ø 2 Way TV Splitter		TV Splitter for 75Ω Coax		
Plastic Plastic Metal Metal										
Code	TVA5001	TVA5002	TVA5003	TVA5004	TVA5080	TVA5081	TVA58553	TVA58554	TVA5012	TVA5014
Type	Male Plug	Female Plug	Male Plug	Female Plug	Female	2 x Female	Female to 2 x Male	Male to 2 x Female	2 Way Splitter	4 Way Splitter
9.5mm Ø Splitters		Coaxial In-line Connector		Coaxial Adaptors 9.5mm Ø			F Plug & F Jack Connector			
		2 per Blister Pack 		2 per Blister Pack 			2 per Blister Pack Twist-On Type 			
Code	TVA5065	TVA5066	TVA5057	TVA5058	TVA0085	TVA0086	TVA0087	TVA0008	TVA59551	
Type	Male to 2 x Female	Female to 2 x Male	Clamp	Screw	Male to Female	Male to Male	Female to Female	For RG58 Coaxial Cable	F Jack to F Jack	

TV Extension

TV5154

1 Socket out
10m

Infra Red Remote Extender

Code **MT-EA01**

Extend the range of your remote control to another room

- Telescopic antenna
- Frequency band 2.4GHz
- Range: 85m in line of sight

Transmitter *Receiver*

TV Leads 75Ω

Length	Code Male to Male	Code Male to Female	Code Female to Female
3m	TVC8071MM-3M	TVC8071MF-3M	TVC8071FF-3M
5m	TVC8071MM-5M	TVC8071MF-5M	TVC8071FF-5M
10m	TVC8071MM-10M	TVC8071MF-10M	TVC8071FF-10M

WIR **Coaxial Cable**

- Shrink wrapped rolls

Length	Code 75Ω White
10m	TVC8119-10
25m	TVC8119-25
50m	TVC8119-50
100m*	TVC8119-100



MOSAIQ6 PORTABLE METER



The Power of User Experience! MOSAIQ6 is a new high-performance portable meter equipped with advanced functions and a high measuring accuracy. All of it in the most automated and intuitive way available in the market, thanks to the tactile interface and the gesture commands. MOSAIQ6 provides technicians with a powerful tool, capable of measuring, analysing, and diagnosing return channel, radio, DAB and DAB+, television, optical fibre, Wi-Fi or IPTV signals, no matter how complex the scenario. MOSAIQ6 is equipped with an ultra-fast high-resolution spectrum analyser, which, together with the echo-analysis functionalities, allows the display of any significant aspect of the signal.

Technical Specifications

Code	Ref. Ref.	Description	EAN13
Meters			
596101	MOSAIQ6	MOSAIQ6: DVB-T/T2/S/S2/C + CI + FO	8424450191538
596111	MOSAIQ60	MOSAIQ6: DVB-T/T2/S/S2/C + CI + FO SEL.	8424450191545
Options			
596201	M6-UP-GPS	MOSAIQ6 GPS DRIVE TEST OPTION. Measurements can be displayed on a map at the very same spot where they were actually taken, thus facilitating coverage analysis.	8424450193198
596202	M6-UP-Wi-Fi	MOSAIQ6 Wi-Fi 5 GHz OPTION. The 5 GHz band is a much less congested frequency, which means much less interference.	8424450193204
596203	M6-UP-ANA	MOSAIQ6 ANALOGUE MEASUREMENT OPTION. It allows the measuring of signal levels between 20 dBµV and 128 dBµV, C/N up to 30 dB, and V/A up to 52 dB.	8424450193211
596204	M6-UP-DAB	MOSAIQ6 DAB/DAB+ OPTION. It allows power measuring between 20 dBµV and 128 dBµV, standard C/N and MER .for this type of signal	8424450193228
596205	M6-UP-4K	MOSAIQ6 4K UHD OPTION. Allows signal display with 4K resolution (3,840 x 2,160) and supports the new H.265 HEVC video compression format.	8424450193235
Accessories			
596210	M6-AKKU	Stand-alone, field replaceable battery.	8424450196526



Tap
Perform a quick tap with one finger



Double Tap
Perform two quick consecutive taps with one finger



Drag
Drag (long slide) with a single finger



Swipe
Short slide with a single finger



Pinch
Pinch/spread two fingers on the screen



Long Press + Drag
Hold and drag from one side to another



H30 FLEX MULTI STANDARD HANDHELD METER



Code	593302
------	--------

Televes keeps leading the way with this new meter, designed to meet the requirements of TV installers for both satellite and terrestrial signals.

H30Flex is a light-weight handheld meter packed with all of the features required to install and maintain TV systems using DVB-S/S2, DVB-T/T2 or DVB-C digital modulation as well as analogue channels.

Available for the first time in an economic product, digital processing brings installers the opportunity to take measurements with a high level of accuracy, essential to give the installer the peace of mind of a job well done.

Features

- Traffic light indicators (pass/fail) for the main quality indicators
- All the features of more expensive meters included as: constellation, spectrum analyser, service id, etc.
- It allows pre-amplifier and LNB powering. Including both DiSEqC and dCSS (SCR) commands
- Display the images offered on a digital channel (HD or SD)
- The parameters of the different modulations are automatically detected
- Real-time digital processing of the signal



HDMI/AV TO DVB-T MODULATOR



Connections

Code	DHM-2061
Video Input	HDMI / CVBS
HDMI Loop	Yes
RF	In/Out
Video Resolution	HDMI: 1920 x 180-3p RCA: 720 x 576 @25fps
Video Codec	H.264 (Bitrate 1..19Mb/s)
HDCP	Yes
Cascadeable	Yes

NEW

GENERAL ACCESSORIES

	F Connector	Adapter	2 x F Twist	90° Elbow		
						
Code	4306	4307	4317	4130	4131	
Description	With Weatherproof Boot	Female F-F Connector	Ø 6.2mm Cable	CEI Ø9.5mm Male	CEI Ø9.5mm Female	
90° Elbow Connectors			90° PRO Easy Elbow			
						
Code	437401	437501	437601	413201	413301	
Description	1 x Male for Coaxial Cable	1 x Female for Coaxial Cable	1 x Pair Male/Female for Coaxial Cable	CEI Ø9.5mm Male	CEI Ø9.5mm Female	
Terminal Load		DC Block		Connector Threaded	Twisted Connector	
						
Code	4061	4058	4071	4171	4127	
Description	F Type 75Ω with DC Block, Screw on	F Type 75Ω without DC Block, Screw on	F Type Screw on	F Type with O Ring for T-100 Cable, Screw on	F Type for CXT-5 Cable, Screw on	
RG11		Audio/Video Transmitters/Receivers			Current Injector	Remote Extender
						
Code	9349	7167	7307	7604	7450	7237
Description	F Type Screw on	5.8GHz 8 Channel with IR Feedback	2.4GHz 3 Channel with IR Feedback	Additional Receiver for 7307	24VDC/1A 10 - 2150MHz Return Losses ≥ 10dB	IR by Wifi 433MHz
Indicator		Wall Bracket	Patch Cable	Coaxial Cable	LNB	
						
Code	7301	7349	422601	4389	4332	4365
Description	Satellite Signal Strength Indicator	"L" Type 380 x 350 x Ø45mm	T.0X-T12/T05/T03/ or T12/T05/T03-T.0X	1.5m White Male - Female	Twin H / V - H / V HD Compatible	Universal H / V HD Compatible

NEW

TV BRACKETS

	Ceiling Mount TV Bracket Vesa		TV Bracket Vesa	
Code	DF2655	DF3270	JSD-B27	JSD-B42
TV Size	26-55"	32-70"	14-42"	26-55"
Size & Weight	400 x 400mm 45kg	600 x 400mm 50kg	75 x 75 - 200 x 200mm 20kg	75 x 75 - 400 x 400mm 35kg
	Ceiling Mount Vesa		Articulated TV Bracket Vesa	
Code	JSD-B62	JSD-F201	JSD-F401	JSD-F602
TV Size	40-65"	14-42"	26-55"	32-70"
Size & Weight	200 x 200 - 600 x 400mm 45kg	200 x 200mm 45kg	400 x 400mm 50kg	600 x 400mm 50kg
	Tiltable TV Bracket Vesa			Decoder Shelf
Code	JSD-T27	JSD-T42	JSD-T62	SM-A
TV Size	14-42"	26-55"	40-65"	-
Size & Weight	75 x 75 - 200 x 200mm 20kg	75 x 75 - 400 x 400mm 40kg	200 x 200 - 600 x 400mm 45kg	300 x 220 x 51mm 10kg

NEW

DSTV ACCESSORIES

Power Supply Units

Code	M-EXPLOPS	M-1132PS	M-2PPS	M-4136PSU
Description	For DSTV Explora	For 1132 Decoder	For 2P Decoder	For 4136 Decoder

Remote Control Units

Smart LNB

Smart Switch

TV Link

Code	M-B5RCU	M-MCADRC	LMX501	M-SW241Z	M-TV LINK
Description	DSD4136 B5	A4 (Beyond Platinum)	30 User Bands 1 x 3 Out	24 User Bands 4 x 4 Out	TV Link



HDMI & VGA SWITCHES / CONVERTERS / EXTENDERS

	HDMI Switch	HDMI Switch	VGA Switch	VGA Matrix
Code	EKL-41HK-4	EKL-51H	EKL-414R	EKL-V404
Input	4 x HDMI Video, 4 x USB	5 x HDMI	4 x VGA	4 x VGA
Output	HDMI, USB	1 x HDMI	4 x VGA	4 x VGA
Resolution	1920 x 1440 or 1080P	1080P	VGA, SVGA, XGA, SXGA, WXGA	VGA, SVGA, XGA, SXGA, WXGA
Remote	Yes	Yes	Yes	Yes
Bandwidth	2.55GHz	25 - 255MHz	250MHz	600MHz
Comms	USB, Keyboard, Mouse	-	-	RS232
Power	9VDC	5VDC	9VDC	230VAC

Note: Signal Cables and Power Supplies not included with Units. See page 84 for Power Supplies.

	HDMI Signal Splitter	VGA Splitter	HDMI to AV	
Code	EKL-HS102	VSA12	EKL-HAV	EKL-MINIHAV
Input	1 x HDMI	1 x VGA Input	1 x HDMI	1 x HDMI
Output	2 x HDMI	2 x VGA Output	AV Composite, S-Video	AV Composite
Resolution	1080P	Resolution >1920 x 1440	480i/p / 720i/p / 1080i/p	480i/p / 720i/p / 1080i/p
Bandwidth	25 - 225MHz	150/250MHz	25 - 225MHz	25 - 225MHz
Power	5 - 12VDC	5VDC Supply	5 - 12VDC	5VDC (USB)

Note: Signal Cables and Power Supplies not included with Units. See page 84 for Power Supplies.

	S-Video/AV to HDMI	VGA to HDMI	VGA/YPbPr to HDMI	USB Extender	VGA Extender	
Code	EKL-AVH	EKL-VH	EKL-VYH	EKL-UE	EKL-VE200	EKL-VE300
Input	1xS-Video+1xAV Composite	1xVGA+2xPhono (audio)	1xVGA+1xYPbPr+Audio	USB	200m	300m
Output	1 x HDMI	1 x HDMI	1 x HDMI	USB	VGA,SVGA,XGA,SXGA,WXGA,UXGA	
Resolution	1080P	1080P	1080P	Range 60m (Cat5E/6)	Transmitted Video 150MHz	
Power	5VDC	5VDC	5VDC	USB	9VDC	






Note: Signal Cables and Power Supplies not included with Units. See page 84 for Power Supplies.

	HDMI Extender	HDMI Extender	HDMI Extender	HDMI to AV	HDMI & VGA Cables	
Code	EKL-HE60	EKL-HE150	WE50	EKL-VE100	HDMI	VGA
Range	60m	150m	50m	100m	HM001-2	VM2VM-1.5
Resolution	Max 1080P	Max 1080P	Max 1080P	VGA, SVGA, XGA,UXGA	2m	1.5m
Bandwidth	25 - 255MHz	25 - 255MHz	>2.55GHz	Transmitted Video 350MHz	HM001-5	VM2VM-5
Remote	-	Infra-Red 38KHz	IR Pass Through	-	5m	5m
Power	5 - 12VDC	5 - 12VDC	5VDC	5VDC		






Note: Signal Cables and Power Supplies not included with Units. See page 84 for Power Supplies.

NEW





DIY RETAIL BLISTER RANGE

	Coaxial Cable	Toslink	F Type Cable	HDMI Cable	HDMI Plug
	Shrink Wrapped Rolls 	Blister 		Blister 	Blister 
Code	JC1001B-*	JC11001-1.5	JC2024-1.5	JC5001-*	JC5004-*
Description	RG6U Twin White (PVC) *Add length (m) to code: 20, 30, 50	Plug / Plug 1.5m	Male / Male 1.5m	19P with Mesh *Add length (m) to code: 1.5, 3, 15	HDMI / HDMI 19P 1080P Rotating 360° *Add length (m) to code: 1.5, 3

	HDMI Plugs			HDMI Adaptors	
	Blister 	Blister 	Blister 	Blister 	Blister 
Code	JC5007-*	JC5009-*	JC5046	JC5047	JC5052
Description	19P Plug to Plug 90° 3m *Add length (m) to code: 1.5, 3	HDMI / HDMI 19P *Add length (m) to code: 1.5, 3	Female To Female 270°	Male to Male	Female to Mini

	Video Cable	Audio/Video Cable		Audio Cable	
	Blister 	Blister 	Blister 	Blister 	Blister 
Code	JC6001-*	JC6002-*	JC6003-*	JC6016-*	JC6024-*
Description	1 x RCA / 1 x RCA	3 x RCA / 3 x RCA	3 x RCA / 3 x RCA	3.5mm Plug to 2 x RCA	3.5mm Plug to 3 x RCA

*Add length (m) to code: 1.5, 3

	Audio Cable			USB Cable
	Blister 	Blister 	Blister 	Blister 
Code	JC6030-*	JC6033-*	JC6034-*	JC8001-1.5
Description	2 x RCA / 2 x RCA *Add length (m) to code: 1.5, 3, 5	3.5mm Audio plug to plug *Add length (m) to code: 1.5, 3	3.5mm Audio plug to 2 x RCA Audio plugs *Add length (m) to code: 1.5, 3	USB 3.0 Cable 1.5m

	USB Extension	USB 2.0 Adaptor	Twin Speaker Cable	
	Blister 	Blister 		
Code	JC8013-1	JC8018	JC9009-*	JC9013-*
Description	Male to Micro 1m	Male to Male	2 x 1.5mm Add length (m) to code: 10, 20	2 x 2.5mm Add length (m) to code: 10, 20

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