

FIBRE OPTICAL

product catalogue

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Seamless Integration. Boundless Opportunities. One unique supplier!

THE FIBRE POSSIBILITIES

- Very Long Distance with minimal attenuation.
- Lighter and thinner than Coaxial cable.
- Pre-assembled cables up to 200 m.
- UV Resistant.
- No potential and transient currents.
- No influence of external electric or magnetic fields.
- Cost Saving for thermal insulation and fire protection.
- Product Training Courses offered by Space Television.
- After Sales Technical Support Engineers.

ADVANTAGES FOR INSTALLERS

- Design a system over a large area without jeopardising signal and quality.
- Great for saving time at SAT installations.
- Significant cost saving.
- High Reliability.
- Future Proof.
- Noise distortion and interference-free transmission.
- SatCR capable.
- Multichoice Approved solution.
- ICASSA Approved.

WHEN UPGRADING OR NEW INSTALLATION

- Install a single fibre rather than multiple coaxial cables.
- Receive all broadcasts via satellite.
- Supply several hundred apartments via one satellite dish.
- Increased user satisfaction.
- Building aesthetics.
- A fibre optic cable replaces four coaxial cables per satellite position.
- 30-60% cost saving compared to an alternative solution.

A COMPLETE RANGE OF FIBRE OPTIC PRODUCTS



ADVANTAGES FOR TENANTS AND BODY CORPORATES

- One discreet Head End to distribute satellite, digital terrestrial, and radio signals from a single location.
- Multichoice Approved solutions.
- Very short installation time.
- High fire safety.
- Future-proof.
- Energy saving over conventional multi-unit dwelling multiswitch / single cable installations.

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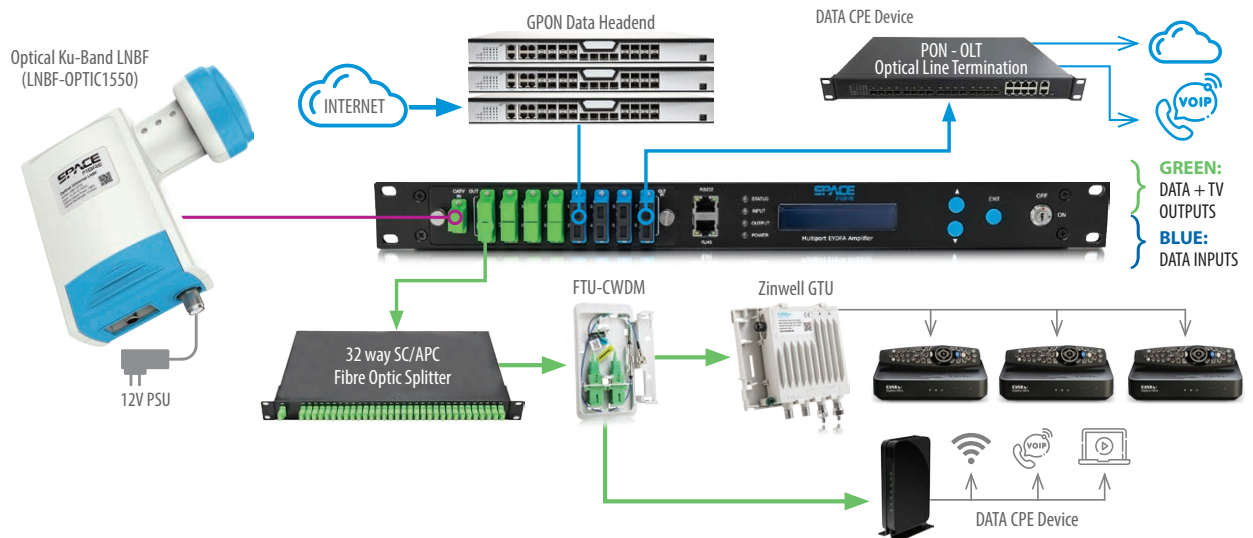


Space Fibre Optical Ku-Band LNBF 1310nm / 1550nm LNBF-OPTIC

The innovative design uses RF stacking technology allowing for both vertical and horizontal polarities to be distributed in a single frequency range of 950MHz to 5450MHz. The extended frequency band is then modulated onto an optical carrier using a 1310nm or a 1550nm laser.

- Long-distance transmission
- Reduce installation cost
- Low noise
- Maximum split ratio 1 to 32
- Full coverage of Ku-Band for digital reception

PRODUCT CODE	DESCRIPTION
LNBF-OPTIC	Space Fibre Optical Ku-Band LNBF 1310nm
LNBF-OPTIC1550	Space Fibre Optical Ku-Band LNBF 1550nm



	LNBF-OPTIC	LNBF-OPTIC1550
Input Frequency Range	10.70~12.75 GHz	10.70~12.75 GHz
Output Frequency Range	Vertical: 0.95~3 GHz / Horizontal: 3.4~5.45 GHz	Vertical: 0.95~3 GHz / Horizontal: 3.4~5.45 GHz
Noise Figure	0.3 dB (Typ.)	0.3 dB (Typ.)
Conversion Gain	65dB (Typ.)	65dB (Typ.)
Gain Flatness	+0.5dB/26MHz	+0.5dB/26MHz
Cross POL. Isolation	25 dB (Typ.)	25 dB (Typ.)
L.O. Frequency	Vertical: 9.75 GHz / Horizontal : 7.3 GHz	Vertical: 9.75 GHz / Horizontal : 7.3 GHz
L.O. Frequency Stability	+1.0 MHz (Max.) @+25°C / +2.0 MHz (Max.) / -30°C~+70°C	+1.0 MHz (Max.) @+25°C / +2.0 MHz (Max.) @-30°C~+70°C
L.O. Phase Noise	-60dBc/Hz@1KHz / -80dBc/Hz@10KHz / -100dBc/Hz@100KHz	-60dBc/Hz@1KHz / -80dBc/Hz@10KHz / -100dBc/Hz@100KHz
Image Rejection	40dB (Min.)	40dB (Min.)
Optical output power	7dBm (Typ.)	7dBm (Typ.)
Optical output	FC/PC	FC/PC
Wavelength	1310nm	1550nm
DC Current Consumption	140mA @12V	140mA @12V
Supplying voltage	10~20 V	10~20 V
DC input	F (female)	F (female)
Operating Temperature	-30°C~+70°C	-30°C~+70°C



Global Invacom - Wideband LNB

(Only available with OTx Headend Kits)

Wideband LNB designed to be used with the Global Invacom OTx headend for optimum performance. 2 fixed polarity wideband outputs with F type connectors. One port for vertical polarity and one for Horizontal. The unit can only be powered via the Vertical Output.

- Fully compatible with GI OTx Headend
- 2 x F connector wideband outputs

Wideband LNB: D000451

RF Signal

RF input frequency range	10.7 ~ 12.75 GHz (Linear polarisation)
RF output frequency range	290 ~ 2340 MHz
Gain	50 ~ 62 dB
Gain variation full band	7 dB p-p
Gain flatness 26MHz	1 dB p-p
LO Frequency	10.41 GHz
Noise Figure	0.5 dB
Feedhorn F/D	0.6
Input polarisation	Linear
Image rejection	40 dB (10.7 - 12.75 GHz)

Phase noise (dBc/Hz)	-50 @1 kHz -75 @10kHz -90 @100kHz
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LO Frequency stability -30/+60°C	-0.8 ~ +0.8 MHz
Input polarisation	8
Image rejection	30 dB typ

DC specification

Input Voltage	8-21 V
Current Consumption	125mA Max

Connectors

Output	2 x F connector
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Other

Operating temperature	-30°C to +60°C
Dimesnions (WxHxD)	60mm x 60mm x 100.2mm



Global Invacom - OTx Optical Headend Kit 1310nm D000452

A wideband input kit with GI OTx 1310nm Optical Headend and GI Wideband LNB. Replaces the functionality of the optical LNB and ODU32.

Kit includes:

- 1x Global Invacom OTx 1310nm Optical Headend (product code: D000410)
- 1x Global Invacom Wideband LNB (product code: D000451)

Global Invacom - OTx Optical Headend Kit 1550nm D000453

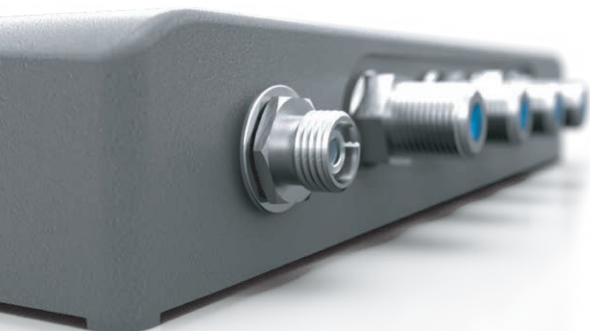
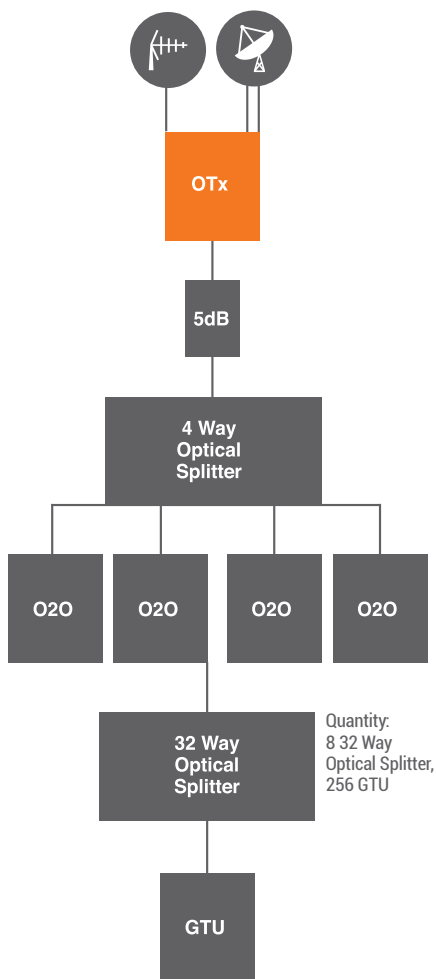
A wideband input kit with GI OTx 1550nm Optical Headend and GI Wideband LNB. Replaces the functionality of the optical LNB and ODU32.

Kit includes:

- 1x Global Invacom OTx 1310nm Optical Headend (product code: D000435)
- 1x Global Invacom Wideband LNB (product code: D000451)



Typical Connection



Global Invacom - OTx Optical Headend

OTx

Fully compatible with all the current FibreIRS equipment and designed for future compatibility. Replaces the functionality of the optical LNB and ODU32. Available in 1310nm or 1550nm output wavelengths.

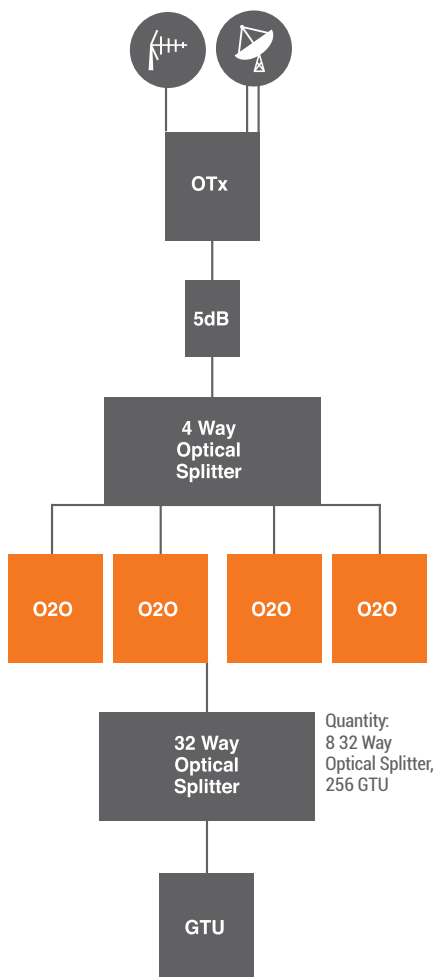
- FibreIRS FC/UPC optical input
- Fully compatible with GI O2O and existing FibreIRS systems
- Wideband input
- Wall or pole mount
- 1310nm or 1550nm versions

OTx Optical Headend	
Product Part number	
OTx 1310nm	D000452
OTx 1550nm	D000453
Optical	
Optical wavelength (D000410)	1310nm +20
Optical wavelength (D000435)	1550nm +15
Optical output power	+7dBm
Return Loss	20dB
RF Signal Satellite	
Input frequency Wideband	Min. 290MHz - Max. 2340MHz
Gain variation across band	Max. 3dB (additional variation can occur due to satellite transmitted signal levels)
Gain ripple across 28Mhz	1dB
Nominal impedance	75Ω
Input power (dBμV)	Min.70 Max. 85 (for 40 transponders)
RF Signal Terrestrial	
Input frequency	Min.88MHz - Max. 694MHz
Gain variation across band	TBC
Gain ripple across 28Mhz	1dB
Input power (dBμV)	70
DC specification	
Input voltage	20V
Current consumption	350mA Max. (Excluding connected devices)
Output voltage Vertical and Terrestrial	12V
Output voltage Horizontal	18V
Maximum upstream current	500mA
Connectors	
Input	3 x F connector
Output	1 x FC/UPC
Power supply	1 x F connector
Environmental Specification	
Operating temperature	-20°C to +60°C
Storage temperature	-40°C to +70°C

The OTx has been designed to be either externally mounted i.e. directly onto the pole behind a dish (using the supplied mounting bracket) or internally on a wall / in a cabinet.



Typical Connection



Global Invacom - 020 Optical to Optical Converter 1310nm D000411

Fully compatible with all the current FibreIRS headend equipment and designed for future compatibility. Replaces the functionality of the O2E and ODU32 in one compact unit.

- FibreIRS FC/PC optical input
- Fully compatible with GI optical LNB, ODU32, and the new wideband LNB and OTX
- 2 x FC/PC optical outputs
- Space-saving design
- Small form factor

O20 Optical to Optical Converter

Product Part number

O20	D000411
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FM,DAB,DTT & Satellite (Optical)

Optical wavelength (Input)	1100nm to 1650nm
Optical input power	-12dBm -3dBm
Optical output power	+7dBm
Return Loss	20dB

DC Specification

Input voltage	20V
Current consumption	150mA Max

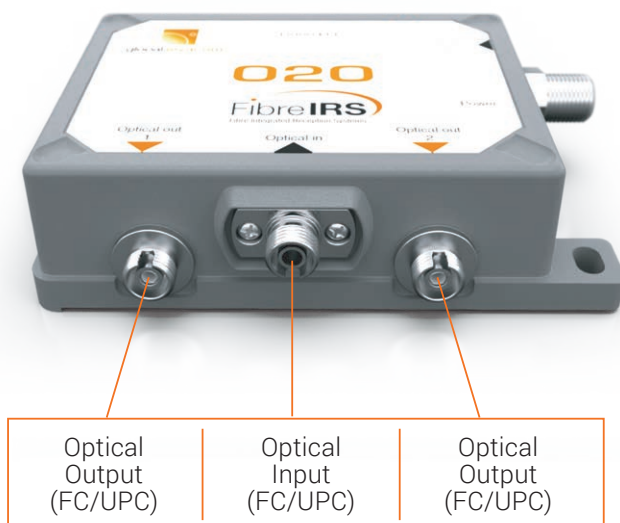
Connectors

Input	FC/PC
Output	2 x FC/PC
Power supply	1 x F connector

Environmental Specification

Operating temperature	-10°C to +50°C
Storage temperature	-40°C to +70°C

The O20 has been designed to be used in conjunction with either the OTx, ODU32, or the fibre optic LNB to increase the number of subscribers that can be connected to a single dish.



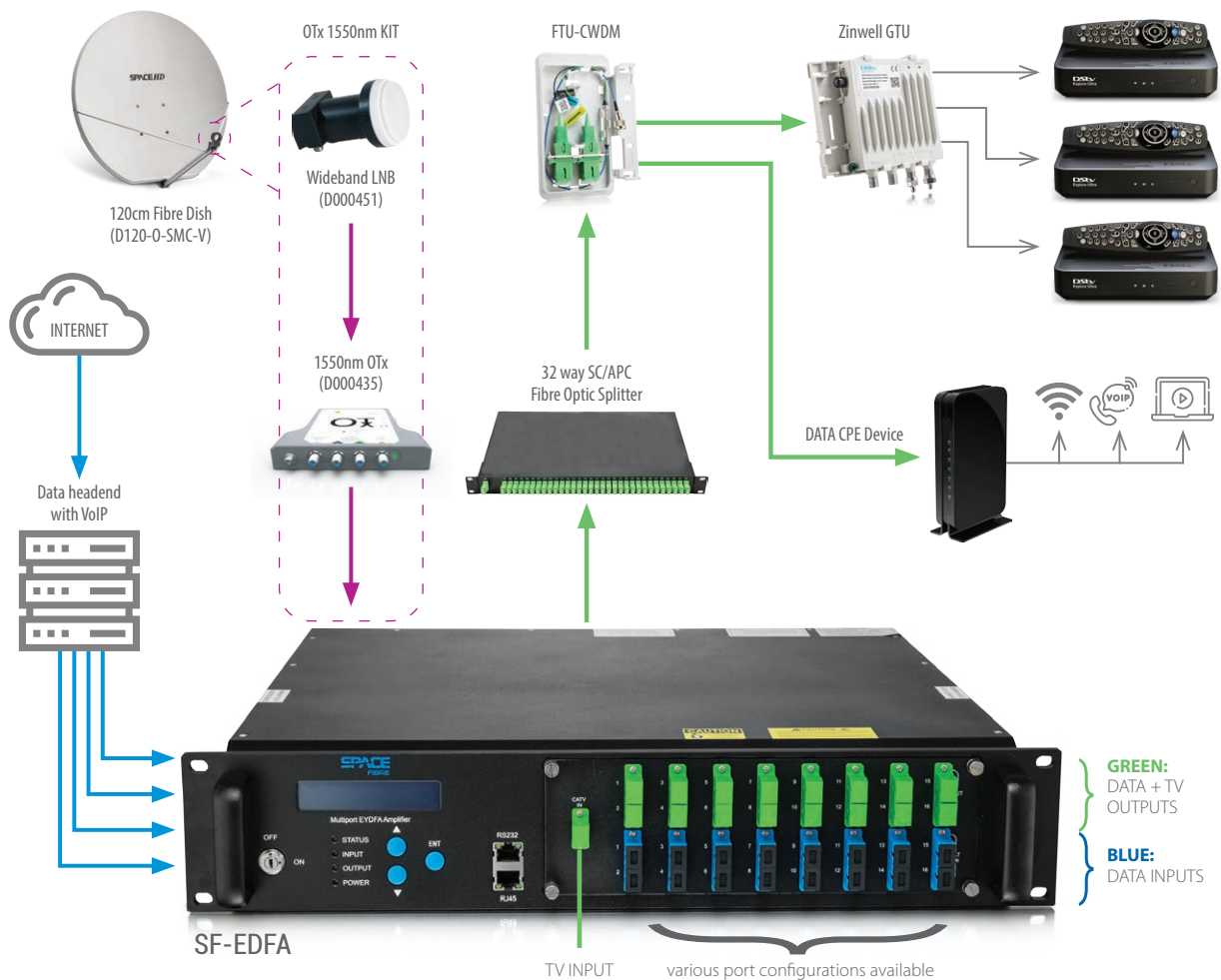
The Benefits of an RF Video Overlay Solution Delivering HD TV to every viewing point

A modern-day optical fibre network capable of virtually infinite data transmission capacity has become an essential platform to satisfy the high demand for large volumes of data transmission.

RF Video Overlay technology enables the addition of Television and Radio signal distribution over FTTx networks, allowing end users to enjoy both analogue and digital television broadcasts without the need for the installation of an external satellite and terrestrial antennas.

RF Video Overlay is based on mature technology and provides reliable and high-quality linear television distribution platform that can be adapted to any size of network deployment.

Utilizing an existing/shared services fibre optic network, allows for cost-effective deployment and low capital layout to developers and property owners.





SF-EDFA-32



SF-EDFA-16



SF-EDFA-8



SF-EDFA-4



SF-EDFA-2



SF-EDFA-1

Space Fibre - Erbium Ytterbium Doped Fibre Amplifiers EDFA

The SF-EDFA series are high-power, multi-port optical amplifiers, operating within 1540-1563nm wavelengths and supporting PON return path. It is designed for CATV applications and is compatible with PON services using the built-in WDM.

With perfect APC, ACC, and ATC controls, reliable heat control, ventilation, and efficient heat-dissipation design, the EDFA unit has all systems in place for an extended MTBF of the laser pump. The EYDFA has an extremely low noise figure by using a two-stage optical amplification: the pre-amplifier on the first stage EDFA is followed by a high-power EYDFA to deliver the maximum signal with the best SNR possible.

- Single input for Feed on 1550nm.
- Output adjustable by the Front Panel Interface or by the WEB User Interface
- Maintenance function of one-time downward attenuation of 6dBm by buttons in the front panel or web SNMP, to facilitate the optical fiber hot-plug operation without turning off the device
- The Device can combine 1310nm and 1490nm wavelengths on the built-in WDM together with the 1550nm output of the EYDFA
- Via the Web Interface, one can configure the SNMP Traps, Alerts, Power output, etc.
- Safety Key to power off the laser during system maintenance
- Built-in RF Test Port
- Adopts JDSU or Oclaro Pump laser
- Handy Indicator Lights built into the front panel
- Dual power supply for redundancy

Product Code	SF-EDFA-1	SF-EDFA-2	SF-EDFA-4	SF-EDFA-8	SF-EDFA-16	SF-EDFA-32
Total Output dBm (+/-)	20dBm	25dBm	28dBm	31dBm	35dBm	38dBm
Total Output mW	100mW	316mW	630mW	1260mW	3200mW	6300mW
Port Output dBm	20dBm	20dBm	20dBm	20dBm	20dBm	20dBm
Port Output mW	100mW	100mW	100mW	100mW	100mW	100mW
Input (dBm)	-8~+10	-8~+10	-8~+10	-8~+10	-8~+10	-8~+10
Range of output adjustment (dBm)	Down 3	Down 3	Down 4	Down 4	Down 4	Down 4
One-time downward attenuation (dBm)	-	-	Down 6	Down 6	Down 6	Down 6
Wavelength (nm)	1535~1565	1535~1565	1540~1565	1540~1565	1540~1565	1540~1565
Output stability (dB)	<±0.2	<±0.2	<±0.3	<±0.3	<±0.3	<±0.3
Bias oscillation sensitivity (dB)	<0.2	<0.2	-	-	-	-
Bias oscillation dispersion (PS)	<0.5	<0.5	-	-	-	-
Optical Return Loss (dB)	≥40	≥40	≥45	≥45	≥45	≥45
Fibre Connector	FC/APC, SC/APC	FC/APC, SC/APC	FC/APC, SC/APC, SC/IUPC, LC/APC, LC/IUPC	FC/APC, SC/APC, SC/IUPC, LC/APC, LC/IUPC	FC/APC, SC/APC, SC/IUPC, LC/APC, LC/IUPC	FC/APC, SC/APC, SC/IUPC, LC/APC, LC/IUPC
Noise Figure (dB)	<5.0 (input 0dBm)	<5.0 (input 0dBm)	<6.0 (input 0dBm)	<6.0 (input 0dBm)	<6.0 (input 0dBm)	<6.0 (input 0dBm)
Web port	RS232 or RS485	RS232 or RS485	RJ45 (SNMP), RS232	RJ45 (SNMP), RS232	RJ45 (SNMP), RS232	RJ45 (SNMP), RS232
Power Consumption (W)	≤50	≤50	≤80	≤80	≤80	≤80
Voltage (V)	220VAC (90~265), -48VDC	220VAC (90~265), -48VDC	220VAC (90~265), -48VDC	220VAC (90~265), -48VDC	220VAC (90~265), -48VDC	220VAC (90~265), -48VDC
Working Temp (°C)	-0~40	-0~40	-0~55	-0~55	-0~55	-0~55
Size (mm)	483×370×44	483×370×44	380(L)×486(W)×44(H)	380(L)×486(W)×44(H)	390(L)×486(W)×88(H)	390(L)×486(W)×88(H)

Global Invacom - Optical to RF Convertor

Quad GTU (D000187+PSU)

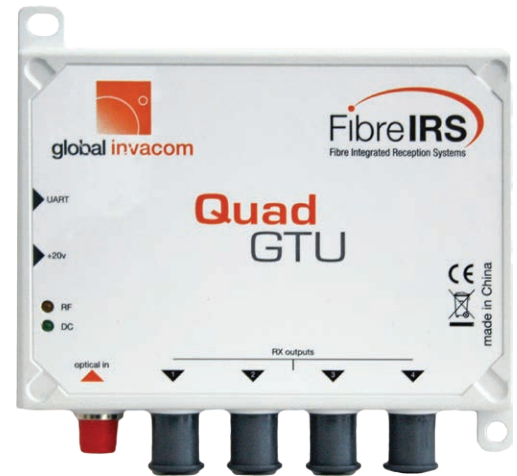
Quatro GTU (D000188)

The FibreIRS GTU converts optical power to RF power (4 satellite bands and FM, DAB, DTT). All units have built-in AGC which allows a wide dynamic range of optical powers without affecting output power and quality. Two LED indicators allow the user to monitor the status of the unit.

- Optical to RF convertor (Satellite and FM, DAB, DTT)
- Quad and Quatro versions available
- Automatic Gain Control (AGC)
- Powered by STB or PSU
- Terrestrial signals overlaid onto each output (Quad only)
- Frequency Morphing Technology (FMT) for Worldwide use

Two versions are available:

- **Quad (D000187)** for use directly with an STB/faceplate.
- **Quatro (D000188)** for use with a multiswitch as it has dedicated outputs for each of the satellite bands (Vertical Low, Horizontal Low, Vertical High, Horizontal High) and terrestrial.
- Both versions can be powered via the satellite outputs and used with either the Optical LNB or the ODU32.



D000187 Quad GTU + PSU



D000188 Quatro GTU

PSU for Global Invacom Fibre Optic Units

D000342

- 20V PSU for the Global Invacom Fibre Optic units.
- Suitable for use with Global Fibre Optic range including Quad, Quatro and ODU kit.
- 100-240 VAC, 20 VDC, 1.2A



Global Invacom - Optical to RF Convertor

Quad GTU (D000187+PSU)

Quatro GTU (D000188)



TECHNICAL SPECIFICATIONS:

QUAD GTU (D000187 + PSU)

QUATRO GTU (D000188)

GTU MKIII	Min.	Max.	Notes
Satellite (Electrical)			
RF frequency range (MHz)	950	2150	
Output impedance		75Ω	
Return loss	10dB		
Gain variation across band		5dB	
Nominal output level (Quad)	75dBμV *		For 30 transponders (* additional variation can occur due to satellite transmitted signal levels.)
Nominal output level (Quatro)	79dBμV *		For 30 transponders (* additional variation can occur due to satellite transmitted signal levels.)
Terrestrial rejection	35dB		
DTT, DAB and FM (Electrical)			
RF frequency range			
DTT	470-790MHz		
DAB	174-240MHz		
FM	88-108MHz		
Nominal impedance		75Ω	
Return loss	10dB		
Nominal DTT output Quad (Quatro)	71dBμV (78dBμV)		For 6 multiplexes
Gain variation across band		5dB	
950-2150MHz rejection	35dB		
FM, DAB, DTT & Satellite (Optical)			
Optical wavelength	1100nm to 1650nm		
Optical input power (typical)	-12dBm#	-3dBm	#For systems with 19.2dB optical budget
Control signals (Quad only)			
Vertical select voltage	10.5V	14.5V	13V nominal
Horizontal select voltage	15.5V	19V	18V nominal
Low / High band		0/22KHz tone	
DC Specification			
Input voltage range	10.5V to 21V		For both direct or line powering
Current consumption (Quad)	235mA max		@10.5V for RX1 and Rx2 only (line powered)
Current consumption (Quatro)	235mA max		@10.5V for RX3 and Rx4 only (line powered)
Total Current consumption (Quad)	470mA max		@ 10.5V (direct power)
Current consumption (Quatro)	490mA max		@10.5V

Connectors

Quad output	F x 4
Quatro output	F x 5
Power supply	2.1mm Jack
Optical input	FC/PC

Dimensions

Size QUAD (W x H x D)	128.7mm x 116.5mm x 27mm
Size QUATRO (W x H x D)	120.8mm x 80.1mm x 26.3mm
Weight	325g (Quad) 175g (Quatro)

Environmental Specification

Operating temperature	-15°C to +50°C
Storage temperature	-20°C to +70°C

Optical cabling

Fibre type	Single mode
Standard	GI - approved G657a



DStv Fibre Termination Unit Zinwell GTU-MS

The DStv Fibre Termination Unit (FTU) with 3 Unicable (DSCr) outputs and 1 DTT output is designed and manufactured for DStv communal systems which make use of the fibre.

SMO-1F (Fibre Termination Unit)

- Fibre Input
- Lamp: Power & Signal
- Digital Terrestrial Television
- Unicable Outputs x 3

SMO-1W (Wave Division Multiplexer)

- Fibre Input Wavelength: 1270-1600nm
- Fibre Output Wavelength: 1545-1600nm
- Data Fibre Output Wavelength: 1270-1500nm

DStv FTU-CWDM

Frequency:	750 ~ 2350MHz
Output Return Loss:	> 8 dB
Typical Output Signal Power:	> -30 dBm
Flatness with all UserBands Active:	+3 +/- 1, (750 to 2350MHz)
TX / RX Command Protocol:	EN-50494 & EN-50607

MoCA / RF Pass-Through

Insertion Loss (7MHz):	< 8 dB
Insertion Loss (5 ~ 625MHz):	< 12 dB
Insertion Loss (625 ~ 700MHz):	< 16.5 dB
Band Rejection (750 ~ 2350MHz):	> 25 dB

DTT/DAB/FM Output Port

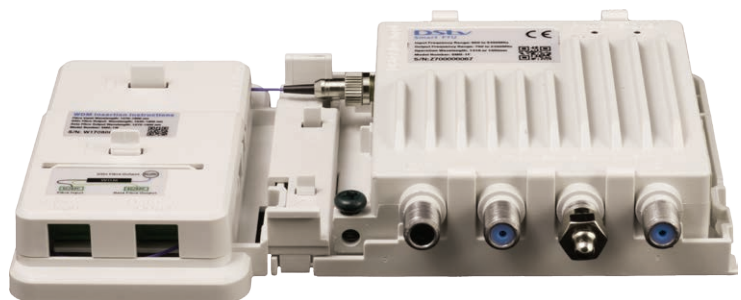
Frequency:	88 ~ 862 MHz
Output Return Loss:	> 10 dB
Gain Variation Across Band:	< 5 dB

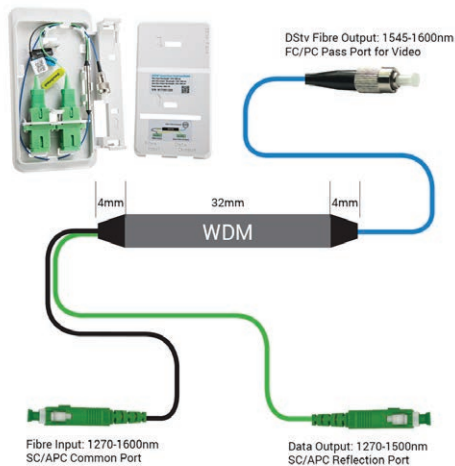
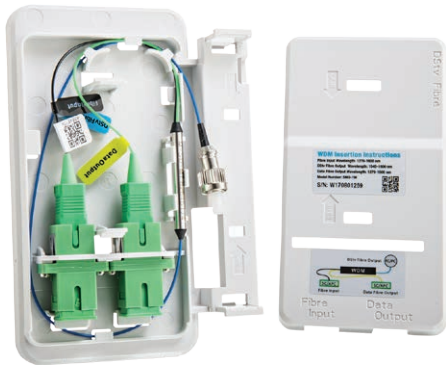
System

LED – Unit Power Indicator:	Green LED
LED – Signal Received from HE:	Blue LED
Operating Power Required:	6.75W (450mA @ 15V) max

Wave Division Multiplexer for COFZFTU-CWDM

Fibre Input Wavelength:	1270-1600nm
Fibre Output Wavelength:	1545-1600nm
Data Fibre Output Wavelength:	1270-1500nm





DStv Course Wavelength Division Multiplexer FTU-CWDM

The DStv FTU-CWDM (Course Wavelength Division Multiplexer) is used when Video and Data services are combined on a single fibre. The FTU-CWDM is designed to clip onto the side of the Zinwell GTU/MS and will split the optic wavelengths between 1550nm (Video) and 1310nm / 1490 nm (Data downstream and upstream)

DStv FTU-CWDM

Physical Device	Removable
Input Frequency Range	1270 to 1600 nm
Input Identification	Input to be labelled as "Fibre Input"
Input Fibre Cable Colour	Black
Input Connector	SC/APC
Output Pass Frequency Range – Data	1270 to 1500 nm
Output Identification – Data	Input to be labelled as "Data Output"
Output Fibre Cable Colour – Data	Green
Output Connector – Data	SC/APC
Output Pass Frequency Range to Switch – Video	1545 to 1600 nm
Output Identification – Video	Input to be labelled as "DStv Fibre Output"
Output Fibre Cable Colour – Video	Blue
Overlay Output Connector – Video	FC/PC
Connector Protection	All fibre connectors to be protected by protective device enclosure cover
Fibre Cable Type	Single mode
Optical Insertion Loss	1 dB max
Isolation (pass port)	≥ 40 dB
Isolation (reflect port)	≥ 15 dB
Optical Return Loss (reflect port)	≥ 50 dB
Thermal Stability	≤ 0.005 dB / °C
Polarization Dependent Loss	≤ 0.1 dB
Polarization Mode Dispersion	≤ 0.1 ps
Max. Optical Power	300 mw
Max. Tensile Load	5 N
Storage Temperature	-0 ~ +70 °C
Fiber Type	SMF-28e+ ; Loose tube cable (900µm)
WDM filter package size	Ø 3.8 x 40
Cable Length	Fibre Input: 130mm +/- 5 Data Output: 245mm +/- 5 DStv Fibre Output: 95mm +/- 5

Global Invacom FibreIRS Optical Box Splitters

Designed to enable quick and easy connection of pre-terminated fibre cables. Various split outputs available to achieve the desired PON (Passive Optical Network) split ratio.

- 2, 3, 4, 8, 16, and 32-way versions available
- Dual window (1310nm and 1550nm)
- Direct connection of fibre patch cables

PRODUCT CODE	DESCRIPTION	DIMENSIONS
F700336	2 way optical box splitter	148 x 115 x 21 mm
F700337	3 way optical box splitter	148 x 115 x 21 mm
F700338	4 way optical box splitter	148 x 115 x 21 mm
F700339	8 way optical box splitter	148 x 115 x 21 mm
F700414	16 way optical box splitter	148 x 176 x 51 mm
F700415	32 way optical box splitter	155 x 176 x 51 mm
F700416	32 way rack mounted splitter	155 x 176 x 51 mm



TECHNICAL SPECIFICATIONS

Optical Box Splitter	Min.	Max.	Notes
Common specifications			
Operating wavelength (nm)	1310	1550	±40
Thermal stability (dB)		≤ 0.2	
Directivity (dB)		≥ 50	
Insertion loss (dB)			
2 Way Optcal Box Splitter	3.65	4.0	
3 Way Optcal Box Splitter	5.68	6.13	
4 Way Optcal Box Splitter	6.87	7.32	
8 Way Optcal Box Splitter	10.1	10.5	
16 Way Optcal Box Splitter	13.3	13.8	
32 Way Optcal Box Splitter	16.8	17.2	
Connectors			
Quad output	F x 4		
Quatro output	F x 5		
Power supply	2.1mm Jack		
Optical input	FC/PC		
Dimensions			
Size QUAD (W x H x D)	128.7mm x 116.5mm x 27mm		
Size QUAD (W x H x D)	120.8mm x 80.1mm x 26.3mm		
Weight	325g (Quad) 175g (Quatro)		
Environmental Specification			
Operating temperature	-15°C to +50°C		
Storage temperature	-20°C to +70°C		
Optical cabling			
Fibre type	Single mode		
Standard	GI - approved G657a		

Global Invacom - FibreIRS Optical Box Taps

Designed to split the light transmitted by the FibreIRS ODU32/Optical LNB into unequal parts.

- 20:80, 30:70, and 40:60 versions available
- Dual window (1310nm and 1550nm)
- Direct connection of fibre patch cables

PRODUCT CODE	DESCRIPTION	DIMENSIONS
F813001	20:80 box tap	148 x 115 x 21 mm
F813002	30:70 box tap	148 x 115 x 21 mm
F813003	40:60 box tap	148 x 115 x 21 mm



TECHNICAL SPECIFICATIONS

Optical Tap	Min.	Max.	Notes
Common Specifications			
Operating wavelength (nm)	1310	1550	±40
Thermal stability (dB)	≤ 0.1		
Directivity (dB)	≥ 55		
Insertion loss (dB)			
10:90 (dB) Port 1	11.0	11.2	
10:90 (dB) Port 2	1.0	1.2	
20:80 (dB) Port 1	7.7	7.9	
20:80 (dB) Port 2	1.5	1.7	
30:70 (dB) Port 1	5.9	6.1	
30:70 (dB) Port 2	2.1	2.3	
40:60 (dB) Port 1	4.6	4.8	
40:60 (dB) Port 2	2.8	3.0	
Connectors			
Input / Output	FC/PC		
Environmental Specification			
Operating temperature	-40 to 80°C		



Spacestream CATV (47 to 862 MHz)

Optical Transmitter 1310nm – 20mW (13dBm)

OTX-CATV-20

The SpaceStream OTX-CATV-20 Optical transmitter 1310 nm for HFC networks is used to transmit RF signals from a RF source such as a RF headend in a Hotel, Lodge or Corporate installation over long distances.

- Signals are transmitted transparently by amplitude-modulated light in a wavelength window around 1310nm.
- The Space Stream CATV Fibre Backbone is capable of transmitting a full 1 Ghz of RF Video from the headend to the Subscriber tv set.
- Eliminates the impact static as a result of a lightning strike when compared to traditional coaxial copper CATV RF networks.
- Cost Saving by way of lower maintenance over time
- Improved Signal Quality over Coax Copper networks
- Cost Effective method for distributing HDTV over large distances.
- Less Signal Attenuation over Copper networks.

OTX-CATV-20

Optical output power	20.0 mW
Optical output power	13.0 dBm
RF input	
Frequency range	47 – 862 MHz
Level (84 PAL D channels)	85 ±3 dBμV
Test point (F-connector, front)	-20 dB
Flatness in band	±0.75 dB
Return loss	>18 dB
Optical System	
Wavelength	1310 nm
CTB (Non linear distortion) (Popt in = - 1 dBm, 84 PAL D channels)	>65 dB
CSO (Non linear distortion) (Popt in = - 1 dBm, 84 PAL D channels)	>60 dB
C/N (Popt in = - 1 dBm, B=5MHz)	>51 dB
Test point – RF input(F-connector, front)	-20 dB
Laser type	DFB, temperature controlled
Additional	
Monitoring interfaces	RS232 for software, RJ45 for LAN Ethernet
Monitoring display	160 x 32 dot
Input connectors (for RF)	F-Connector
Fibre connectors (for fibre optic cable)	SC/APC
Housing	19", 1 HE
Power supply	110 – 253 (50 MHz) VAC
Dimensions (w x h x d)	480 x 44 x 380 mm



Fibre Optical Receiver FTTH for individual households ORX-CATV

The ORX-CATV Optical Receiver is a highly cost-effective optical network termination for expanding your viewing points from an optic feed over RF.

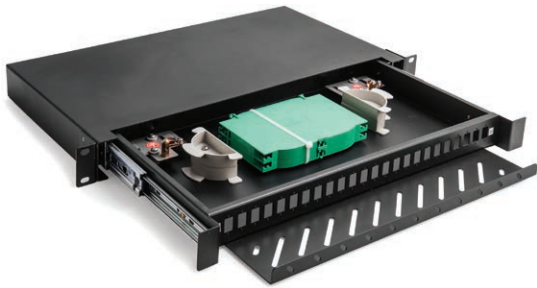
- AGC for constant RF output level.
- 3 colour LED for rapid indication of the correct optical input level.
- Compact and space-saving.
- Low power consumption.
- Includes a 9V power supply.
- SC/APC connection at optical input.
- RF output level 80 dBuV



Fibre Optical Receiver for Hybrid solutions ORX-HFC-823

The SpaceStream ORX-HFC-823 series optical receivers are designed for use in HFC networks and other unidirectional optical cable transmission systems from the head station to the end user.

- Built-in AGC,
- Maximum RF signal input level: 1 x 107dBuV for CENELEC 42 channels.
- Easy receiver configuration with JXP inserts.
- Hybrid GaAs Push-pull technology,
- 3 stages LED indication of input optical power level,
- Very low power consumption – 5,5W,
- 3 kinds of overvoltage protection,
- Switch Mode Power Supply (180-253 VAC),
- Metal, die-cast housing.



24 Port SC or 48 Port LC Rack Mount Patch Panel Slide-out Drawer FCFPP-24

- 19" standard size, lightweight cold-roll steel structure
- Slide out drawer for easy cable management
- SC, LC, and FC adapters
- Suitable for optic distribution cabinets with metal front cover
- 2 fibre cable entry ports at the rear side



24 Port SC or 48 Port LC Rack Mount Patch Panel Side-spin Open SCFPP-24-SPO

- The SCFPP-24-SPO Fibre Patch Panel with a side-spin opening is for terminal wiring in optical fibre transmission and communication networks. It is suitable for direct splicing and distribution of indoor optical cables and plays a protective role in optical fibre joints. It is mainly used for the fixation of optical cable terminals, fusion of optical cables and pigtails, and for storage and protection of surplus fibre.



48 Port SC or 96 Port LC Rack Mount Patch Panel Side-spin Open SCFPP-48-SPO

- The SCFPP-48-SPO Fibre Patch Panel with a side-spin opening is for terminal wiring in optical fibre transmission and communication networks. It is suitable for direct splicing and distribution of indoor optical cables and plays a protective role in optical fibre joints. It is mainly used for the fixation of optical cable terminals, fusion of optical cables and pigtails, and for storage and protection of surplus fibre.



24 Port SC or 48 Port LC Patch Panel SCFPP-24

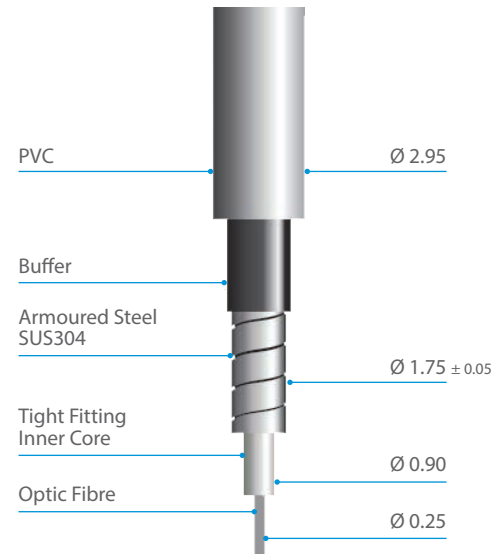
- 19" standard size, lightweight cold-roll steel structure.
- SC, LC, and FC adapters.
- Suitable for optic distribution cabinets with metal front cover.
- 2 fibre cable entry ports at the rear side.

Global Invacom - Fibre Optic cable Pre-terminated 3.0mm

3mm ITU-T G.657A reduced bend sensitivity single mode armoured internal/external drop cable.

- Suitable for indoor/outdoor use
- LSZH
- Lengths from 1m to 500m
- ITU-T G657a Optical Fibre
- Available in un-terminated or pre-terminated lengths
- 3mm outer diameter

PRODUCT CODE	DESCRIPTION	LENGTH
F700240	FC/PC Pre Terminated Fibre	200m
F700241	FC/PC Pre Terminated Fibre	100m
F700242	FC/PC Pre Terminated Fibre	75m
F700243	FC/PC Pre Terminated Fibre	50m
F700244	FC/PC Pre Terminated Fibre	40m
F700245	FC/PC Pre Terminated Fibre	30m
F700246	FC/PC Pre Terminated Fibre	20m
F700247	FC/PC Pre Terminated Fibre	15m
F700248	FC/PC Pre Terminated Fibre	10m
F700257	FC/PC Pre Terminated Fibre	5m
F700249	FC/PC Pre Terminated Fibre	3m
F700250	FC/PC Pre Terminated Fibre	1m



TECHNICAL SPECIFICATIONS

3mm armoured cable	UNIT	VALUE
DC Specifications		
Crush	N	3000
Storage temperature	°C	-40 to +80
Operating temperature	°C	-15 to +75
Nominal weight	kg/km	11.4
Nominal outer diameter	mm	2.95 ± 0.2
Maximum tensile load	N	500
Concussion	Nm	4.5 (5 times)
Minimum bend radius	mm	15



LC/PC-LC/PC Duplex Single Mode Patch Lead 50m F700237

- 3mm steel armoured single mode fibre optic cable
- UV stabilised, Gray PVC Outer, G657A – LSZH
- Operating temp -40°C....+60°C



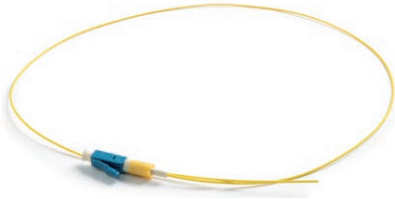
LC/PC-LC/PC Duplex Single Mode Patch Lead 100m F700238

- 3mm steel armoured single mode fibre optic cable
- UV stabilised, Gray PVC Outer, G657A – LSZH
- Operating temp -40°C....+60°C

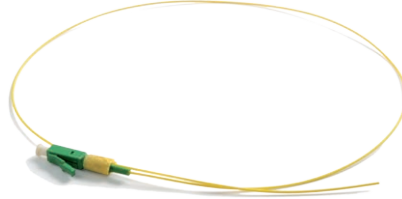


FC/PC Fibre Lead Un-Terminated 500m F700239

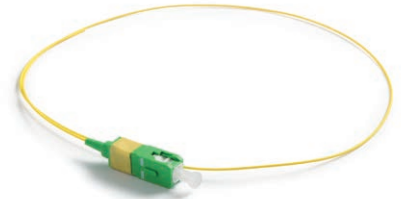
- Un-terminated FC/PC Fibre Lead – 500m Cable Global
- 3mm steel armoured single mode fibre optic cable
- UV stabilised, Gray PVC Outer, G657A – LSZH
- Operating temp -40°C....+60°C



LC/PC Pigtail
F700419



LC/APC Pigtail
F700420



SC/APC Pigtail
F700421



LC/APC-LC/APC Armoured
Patch Cord 3m
LC-APC-LC-APC-3M



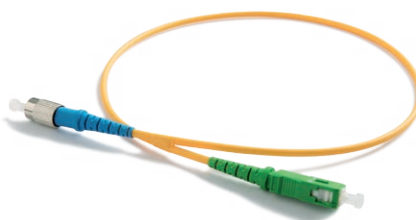
LC/APC-LC/APC Duplex
Patch Cord No Armour 1m
LC-APC-LC-APC-1M



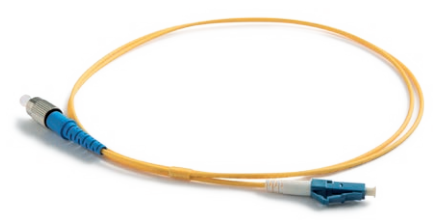
LC/APC-LC/PC Duplex Patch
Cord 1m
LC-APC-LC-PC-1M



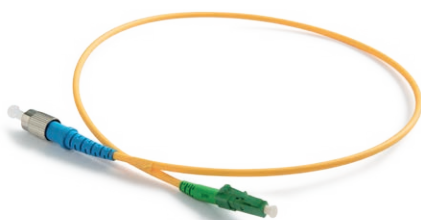
LC/PC-LC/PC Duplex Patch
Cord No Armour 5m
LC-PC-LC-PC-DU-5M



FC/PC-SC/APC Patch Cord
No Armour 0.5M
FC-PC-SC-APC-0.5M



FC/PC-LC/PC Simplex Patch
Cord 1m
FC-PC-LC-PC-1M



1.7mm LSZH Patch Cord 0.5m
FCPC/LCAPC-05M

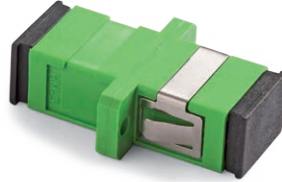


FC/PC Fibre Pigtail 0.5m
F700418

- 50cm G657a Fusion Splice Pigtail with square barrel adaptor for use with breakout boxes.



LC-APC Midcoupler Adaptor
FLC-FLC-A602-02



SC/APC Midcoupler
SC-APC-SIM-MIDCOUPLER



LC/PC Midcoupler
LC-PC-DU-MIDCOUPLER



Optical Attenuator 5dB
F700289

- FC/PC Male to Female attenuator designed to reduce the optical power level by 5dB.



Optical Attenuator 10dB
F700290

- FC/PC Male to Female attenuator designed to reduce the optical power level by 10dB.



Optical Attenuator 15dB
F700291

- FC/PC Male to Female attenuator designed to reduce the optical power level by 15dB.



FC/PC Barrell Connector
F700251

- Used for joining 2 Pre-Terminated Optical Leads together.



FC/PC Barrell Connector
F700253

- Used for joining 2 Pre-Terminated Optical Leads together.



Fibre Splitters LC/APC

PRODUCT CODE	DESCRIPTION
SCFS4LC-APC	1:4 Splitters Mini LC/APC
SCFS8LC-APC	1:8 Splitters Mini LC/APC
SCFS16LC-APC	1:16 Splitters Mini LC/APC
SCFS32LC-APC	1:32 Splitters Mini LC/APC



Fibre Splitters SC/APC

PRODUCT CODE	DESCRIPTION
SCFS4SC-APC	1:4 Splitters Mini SC/APC
SCFS8SC-APC	1:8 Splitters Mini SC/APC
SCFS16SC-APC	1:16 Splitters Mini SC/APC
SCFS32SC-APC	1:32 Splitters Mini SC/APC



Infield Termination Box 4 Port SCATB4

- The SCATB4 is a wall mounted 4 Port Fibre Infield Termination Box which enables fibre cables to be spliced to four SC/LC pigtails (PC or APC), which connect to adapters at the base of the unit.
- Size: 100.5 x 80.5 x 28.5 mm



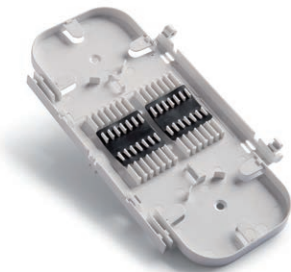
4F Fibre Termination Box with 50m Cable 4FMC-50M

- The 4FMC-50M Fibre Termination Boxes are designed for wall mounting, suitable for indoor use, capable to handle fibre fusion, fibre cables and pigtails.
- 4FMC-50M with 50m Cable



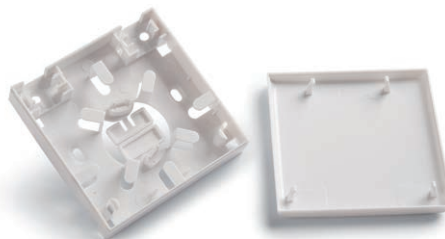
4F Fibre Termination Box with 100m Cable 4FMC-100M

- The 4FMC-100M Fibre Termination Boxes are designed for wall mounting, suitable for indoor use, capable to handle fibre fusion, fibre cables and pigtails.
- 4FMC-100M with 100m Cable



Splice Tray SCPP-SPICE-TRAY

- 24 Fibre Splice Tray with tilting, comes with fibre holder for 24 Splice Sleeves.
- Can be stacked and is suitable for most types of patch panels and cabinets.
- It is designed with a view for troubleshooting and protection of the fiber since there is plenty of room for the retraction of surplus fibre.



Termination Box SCATB

- The dual port fibre indoor termination box is perfect for FTTH or FTTB installations where you need to provide a final connection point for 1 or 2 fibre strands.
- This enclosure is only rated for indoor installations.
- It has 2 ports that can take LC Duplex or SC Simplex midcoupler adapters.
- The enclosure can spool fibre strands within for neat and quality installations.



Infield Termination Box SCITB

- Water-proof design with IP-65 protection level. Can be used indoors and outdoors, as a wall or pole mounted termination box.
- Integrated with 4pcs flap-up splice cassette and adaptor holder.
- Fibre bend radius control more than 40mm.
- Suitable for the fusion splicer or mechanical splice.
- 2 Pcs of 1x8 Splitter can be installed as an option.
- Mechanical sealing structure and mid-span cable entry.
- 16 outports for the drop cable.



Space Core-to-Core Alignment Fusion Splicer SFS-002

- The Space Fibre SFS-002 Fusion Splicer is designed to splice many types of fibre by using core diameter aiming rationale, its shape is compact and light weight, making it ideal for fieldwork. Operation is simple, fusion speed is high, and fusion loss is minimal.
- The SFS-002 Fusion Splicer uses 2 in 1 power module design, which allows for the splicer to be operated using the internal polymer lithium-ion battery or the external AC power supply to provide power to the Splicer. When the SFS-002 is operated using the external AC power supply, the polymer lithium-ion battery is charged at the same time.

Operation is simple,
fusion speed is high,
and fusion loss is
minimal.

SFS-002 Kit includes:

- SFS-002 Fusion Splicer
- Fiber Cleaver 1 set
- Fiber Stripper 1 pc
- AC Adaptor 1 pc
- Power cord 1 pc
- Li Battery 1 pc
- Charger 1 pc
- Cooling tray 1 pc
- Spare Electrodes 1 pair
- User Manual 1 pc



Heavy duty, lockable carry case

SFS-002

Splicing Type	SM, MM, DS, NZDS
Splicing Loss	0.02dB(SM), 0.01dB(MM), 0.04dB(DS)
Return Loss	>60dB
Splicing Mode	Manual, Half Auto, Auto
Fibre Alignment	Core to Core Alignment by PAS technology
Applicable Fibre	Cable indoor and 0.25mm,0.9mm fiber, SC connector (option)
Splicing Time	≤9s
Heat Time	≤30s
Cleaved Length	8 ~16mm
Fibre Image/ Magnification	350/280
View Display	5 inch digital high-quality LCD screen
Tension Test	Standard 2N (option)
Heat Shrinkable Sleeve	60mm, 40mm and serials heat shrinkable sleeve
Battery Capacity	7200mAh, 3 hours charging time (splicing and charging at same time)
Battery Life	Cycling charge 300-500 times, easy to replace battery
Electrodes Life	3000, easy to replace electrodes
Power Source	≤20W
Interface	USB Convenient data download and software update
Construction Lighting	Built in high brightness, wide range of lights, easy to operate at night
Power supply	Built in lithium battery 6800mAh 11.1V; external adapter, input: AC100-240V, output: DC13.5V/4.5A
Operating Condition	0-5000m above sea level, Temperature: -10-60°C, Humidity:0 ~ 95%RH (no dew)
Weight (including battery)	1.98 KG (including battery)
Dimension (LxWxH)	135x158x155mm



Optical Power Meter - Data, CCTV & Sat F813008

- F813008 High performance handheld optical power meter can meet high precision power measurement of fiber signal.
- It can be used for the absolute power measurement and relative measurement of the link loss in dB. Its compact size, friendly operation interface, wide power measurement range, high precision measurement, advanced user calibration function, unique design for universal FC/SC/ST optical connector and high performance in application makes it an ideal tool for optical fiber network operation.

F813008

Wavelength Range	800~1700 nm
Detector Type	InGaAs
Measurement Range	-50~+26 dBm
Uncertainty	±0.25 dB
Accuracy	0.01 dBm
Operating Temperature	-10~+60 °C
Storage Temperature	-25~+70 °C
Auto-off Time	10 min.
Operating Time	≥130 h
Battery	3 AA1.5V
Weight	160 g
Dimensions	152x74x26 mm



Space Installers Toolbag with Embroidered Logo KIT-FIBRE01

- The ideal starter kit for Fibre installations with an optical power meter, fault finder, various fibre patch cords (FC/PC, LC/PC, SC/APC, LC/APC)

Kit includes:

1x Installers Toolbag with Embroidered Logo (SP-FTB01)	1x 1.7mm LSZH Patch Cord 0.5m (FCPC/LCAPC-05M)
1x Optical Power Meter Data, CCTV & Sat (F813008)	1x FC/PC-LC/PC Simplex Patch Cord 1m (FC-PC-LC-PC-1M)
1x Fibre Optic Cable Visual Fault Finder (HT-VFL10)	1x FC/PC-SC/APC Patch Cord NoArmour 0.5M (FC-PC-SC-APC-0.5M)
1x Fibre Optic Cutting Tool (HT-KS01)	
1x Fibre Optic Pliers (HT-CFS3)	
1x 2.5mm Fibre Optic Cleaning Pen for SC/FC/ST Ports (HT-FCP01)	
1x 1.25mm Fibre Optic Cleaning Pen for LC Ports (HT-FCP02)	



Fibre Optic Cable Visual Fault Finder with carry pouch HT-VFL10

- Bright red laser at 650nm.
- Pulsed and CW operation.
- Uses 2x AA batteries (not included)
- Fast locate the broken point.
- Rugged and waterproof design.
- 2.5mm universal connector.



Fibre Optic Cutting Tool HT-KS01

- Fibre Optic cutting tool with ergonomically designed anti-slip rubber handle for both right and left-handed users.
- Non-slip micro-serrated blade with a wire cutting notch for reducing slippage.
- 145mm(L) x 74mm (W)



Fibre Optic Pliers HT-CFS3

- The V-port on the clamp edge is used for stripping the 250um, 500um coating, and the 900um buffer layer accurately.
- Holes will be 250 microns to 125 microns with coating stripping fiber.
- Second holes will be 900 microns to 250 microns sleeve layer.
- Large aperture for stripping 2-3 mm cable sheath handle design.
- 1.0mm diameter stripping hole at the tip of the tool that can be used to strip the fibre jacket.
- 166mm(L) x 55mm(W) (unfolded)



Splice Protectors - 40mm or 60mm SCSP40MM / SCSP60MM

- Splice protectors are designed to provide strength and protection to fibre optic cables after fusion splicing. These splice protectors are composed of a heat-shrinkable outer tube and a hot-melt adhesive-lined inner tube with stainless steel strength rod.
- SCSP40MM - 40mm Splice Protector
- SCSP60MM - 60mm Splice Protector



2.5mm Fibre Optic Cleaning Pen for SC/FC/ST Ports HT-FCP01

- Easy pushing motion engages the connector and initiates cleaner
- Disposable with 800+ cleanings per unit
- Made from anti-static resin
- Cleaning microfibers are densely stranded and debris free
- Extendable tip reaches recessed connectors
- Cleaning system rotates 180 for a full sweep
- Audible click when engaged



1.25mm Fibre Optic Cleaning Pen for LC Ports HT-FCP02

- Easy pushing motion engages the connector and initiates cleaner
- Disposable with 800+ cleanings per unit
- Made from antistatic resin
- Cleaning micro-fibers are densely stranded and debris free
- Extendable tip reaches recessed connectors
- Cleaning system rotates 180 for a full sweep
- Audible click when engaged



Cable Jacket Slitter 1.0-1.4 inch F700380

- Use the Cable Jacket Slitter for quick and precise removal of insulation from round cables without nicking conductors. Unique lever and blade design allows ringing, longitudinal and spiral slitting of cable jackets. The cable holding bracket has an integrated sharpened edge for removing insulation. Adjustable blade cutting depth; includes spare blade in the handle.



Cable Jacket Slitter 0.18-1.0 inch F700381

- Strips to a maximum OD of 0.18"-1.0" (4.5mm to 25mm) OD.
- Blade adjusts for jacket thickness to 0.125" (3.175mm).
- Use with single conductor stranded and solid conductor cable.



Space Installers Toolbag with Embroidered Logo SP-FTB01

- Durable installer toolbag with convenient compartments to keep tools and equipment, including a carry handle and removable shoulder strap.



12 piece Fibre Optic Toolkit **FIBRE-TOOLKIT**

The ideal professional kit for Fibre installations. Complete 12 piece kit in durable carry case.

Kit includes:

2x Fibre strippers x2

1x Fibre Cleave

1x Long-Nose Pliers

1x Lineman's Pliers

1x Diagonal Cutting Pliers

1x Optical Power Meter

1x Fibre Optical Fault Locator

1x Solutions Bottle

1x Storage with Accessories

Modular Wall Outlet Inserts and Frames

Space Fibre - WFC / WPI

The Space Connect Series 4X2 and 4X4 Modular Wall plate range provide an endless variety of connectors to clip in and snap out depending on what your installation requirement may be for the connected home or business.

Our comprehensive range of wall plate frames and modular wall plate inserts are ideal for Fibre to the Home (FTTH), Digital TV and Radio, Ultra High Definition Satellite TV, HDMI, Audio/Video and Data installations.



Wall Plate Cover Frames, Inserts & Kits



4x2 Small Frame
WFC-4x2

- 120mm x 86mm



4x4 Large Frame
WFC-4x4

- 120mm x 128mm



SC/APC Insert
WPI-SC/APC

- SC/APC Wall Plate Insert Module



LC/APC Insert
WPI-LC/APC

- LC/APC Wall Plate Insert Module



FC/PC Insert
WPI-FC/PC

- FC/PC Wall Plate Insert Module



4x2 Bull Nose
WP-KIT11

- 1x WFC-4x2
- 1x WPI-BULL



4x4 Bull Nose
WP-KIT12

- 1x WFC-4x4
- 1x WPI-BLANK
- 1x WPI-BULL



FC/PC Wall Plate Kit
WP-KIT6

- 1x WFC-4x4
- 2x WPI-BLANK
- 1x WPI-FC/PC



4x2 Brush Wall Plate
WFC4X2-BR

- 4x2 Flat Nose Media Cable Management Wall Plate

Wall-Mounted CCTV System Security Cabinet

SR-CCTVCAB

- Fit up to 24" monitor with 50/75/100 VESA mounts (monitor must have downwards facing HDMI and Power inputs)
- Cabinet designed to take any standard 19" rack PDU, should more power outlets be required
- Capacity up to 2U mounted equipment 240-480mm width and 465mm depth
- Round 50mm knockouts on all cabinet sides with INCLUDED protective cable grommet
- Accessories include: cable mounts, captive nuts, screws and monitor brackets



Size (WxDxH)
480x185x635mm



Max. Weight
30kg

19" Wall-Mounted Lockable Network Cabinet

SR-WMC01

- 19-inch wall-mounted network equipment cabinet
- Colour: Black
- Material: Iron
- Material thickness: 1.2mm column, other 1.0mm
- Front door: Iron door with mesh & small round lock
- Built-in 4U horizontal installation column and 2U vertical installation column



Size (WxDxH)
550x170x540mm



Nett Weight
8.2kg

4U Wall-Mounted 10" Lockable Network Cabinet

SR-4UF-MINI

- Exquisite design with precise dimensions and detailed craftsmanship
- Flat-packed design for significant delivery cost saving
- Sturdy SPCC cold rolled steel welded frame structure with a powder-coated finish for durability
- Reinforced, heat-treated, tempered glass front door with security lock
- High-density air vents for temperature control and equipment cooling



Size (WxDxH)
325x300x240mm



Nett Weight
5.2kg

4U Wall-Mounted Lockable Network Cabinet

SR-4UF

- Exquisite design with precise dimensions and detailed craftsmanship
- Flat-packed design for significant delivery cost saving
- Organize cables coming in and out of the rack cabinet
- Sturdy SPCC cold rolled steel welded frame structure with a powder-coated finish for durability
- Reinforced, heat-treated, tempered glass front door with security lock
- Removable side panels and openings from the rear allow easy installation and access
- High-density air vents for temperature control and equipment cooling



Size (WxDxH)
570x450x280mm



Max Weight
60kg

6U Wall-Mounted Lockable Network Cabinet

SR-6UF

- Exquisite design with precise dimensions and detailed craftsmanship
- Flat-packed design for significant delivery cost saving
- Organize cables coming in and out of the rack cabinet
- Sturdy SPCC cold rolled steel welded frame structure with a powder-coated finish for durability
- Reinforced, heat-treated, tempered glass front door with security lock
- Removable side panels and openings from the rear allow easy installation and access
- High-density air vents for temperature control and equipment cooling



Size (WxDxH)
570x450x370mm



Max Weight
60kg

9U Wall-Mounted Lockable Network Cabinet

SR-9UF

- Exquisite design with precise dimensions and detailed craftsmanship
- Flat-packed design for significant delivery cost saving
- Organize cables coming in and out of the rack cabinet
- Sturdy SPCC cold rolled steel welded frame structure with a powder-coated finish for durability
- Reinforced, heat-treated, tempered glass front door with security lock
- Removable side panels and openings from the rear allow easy installation and access
- High-density air vents for temperature control and equipment cooling



Size (WxDxH)
570x450x500mm

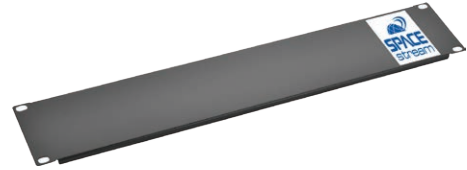


Max Weight
60kg

Server Rack Blank Panel

SR-BP01

- Blanking panel for 19" rack
- Size: 482 x 44mm



Server Rack Brush Panel

SR-BRP01

- Cable management with brush
- Size: 482 x 436mm



24 Port 19" RJ45 CAT6 Patch Panel

SR-PP01

- 24 Port 19" RJ45 CAT6 Patch Panel for CAT6 250m transmission, 1U, 24 hole position
- Individually shielded modular jacks, used in blocks of 6



9U Server Rack Tray

SR-TRAY

- Rolled steel black cabinet tray (Max weight 90kg)
- Size: 485 x 300mm



9U Server Rack Screw & Nut Set

SR-SCREW/NUT

- M6 set
- 4 screws + 4 nuts per set



Side Mount Magnet HPH J-hooks

SR-BR-S

- Magnetic HPH J-hooks provide a wide bend radius to protect cables and a convenient built-in snap lock to keep cables in place.



Bridle Rings with Magnets

SR-BR-T

- Magnetic Bridle Rings designed for use in overhead or wall-mount applications, the strong rare earth magnets provide tremendous holding force (up to 90lbs.), while the bridle rings make pulling and inserting the cable fast and easy.



Network Cabinet Single Cooling Fan

SR-FAN01

- AC fan for cooling cabinet with a noise about 24.9 dB.
- With 50 CFM, offers sufficient cooling
- Size (WxDxH): 120x120x38mm



1U Network Cabinet Cooling System with 2 Fans

SR-FAN1U

- 1U Cooling System with 2 Fans fits most 19" cabinets
- Input Frequency: 100~231V/50HZ
- Size (WxDxH): 120x120x38mm



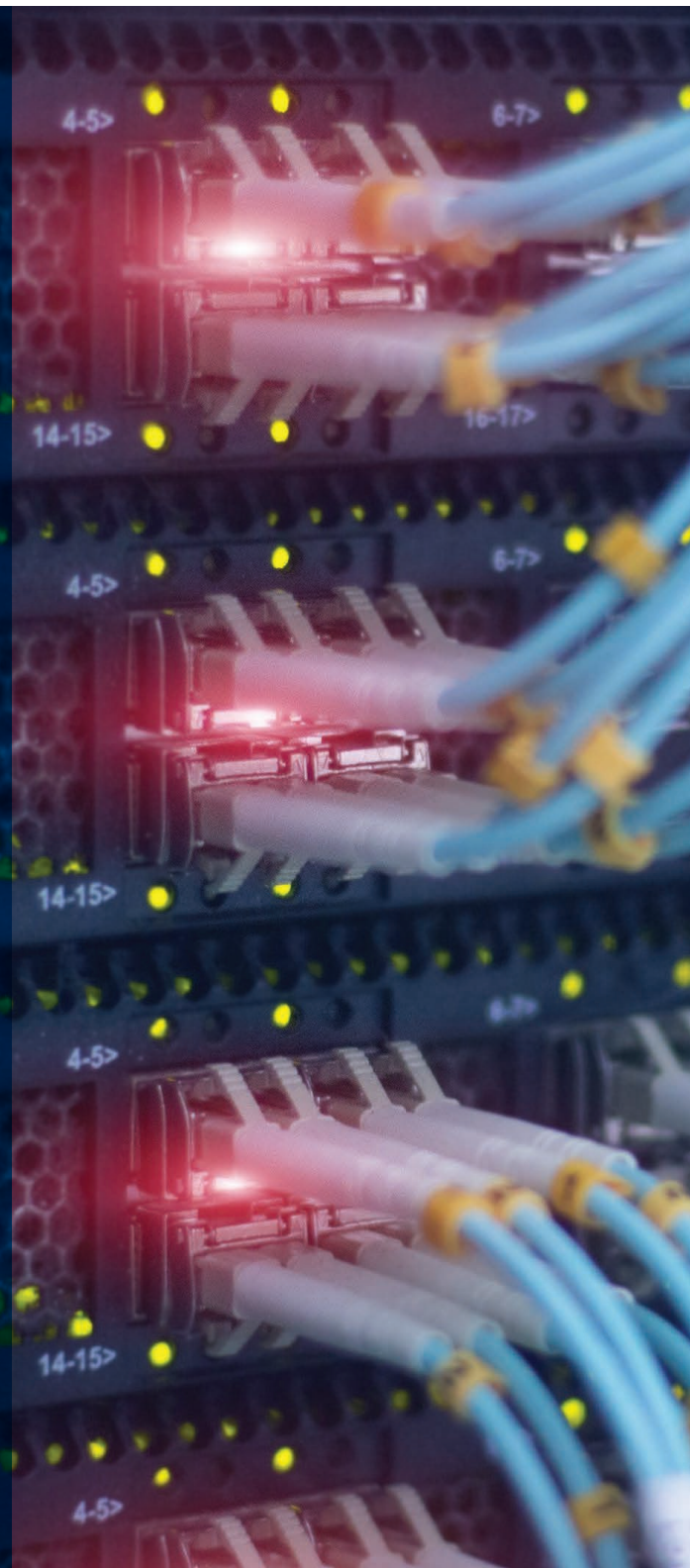
3U Network Cabinet Cooling System with 2 Fans

SR-FAN3U

- 1U Cooling System with 2 Fans fits most 19" cabinets
- Input Frequency: 100~231V/50HZ
- Size (WxDxH): 120x120x38mm



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SPACE TECHNOLOGY (PTY) LTD. - HEAD OFFICE:

78 Republic Road Ferndale, Randburg Johannesburg, 2125
PO Box 9317, Johannesburg 2000 | HELPLINE: 0861 40 41 42
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