

Kingray

OPTICAL FIBRE
CATALOGUE



OPTICAL FIBRE TRANSMITTER

PRODUCT DESCRIPTION

The KOT001 directly modulated optical transmitter has an input range of 47~2600MHz and is specifically designed for the transmission of Digital TV (DVB-C, DVB-T) and Satellite TV (DVB-S) signals.

This transmitter is Foxtel approved & is ideal for use in a FTTx PON system.

The KOT010 transmitter is a compact wall mountable transmitter & is ideal for point to point applications, using 1310nm for the wavelength.

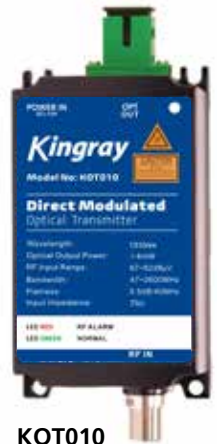
PRODUCT FEATURES

- Wide Band Type: 47~2600MHz
- Suitable for Digital TV and Satellite TV application
- One fibre can transmit Digital TV (DVB-C, DVB-T) and Satellite TV (DVB-S)
- Cooled HGHL DFB laser provides better system stability (KOT001 only)
- 1550nmTX can be amplified by EDFA, YEDFA to cover large-scale FTTH and is compatible with any FTTx PON technology (KOT001 only)
- Dual power supply, 1+1 backup (KOT001 only)

PART NUMBERS	DESCRIPTION
KOT001	Optical Fibre Transmitter 1550nm - 4mW/6dBm, 19" Rack Mount (F31055)
KOT010	Optical Fibre Transmitter 1310nm - 4mW/6dBm, Compact & Wall Mountable



KOT001



KOT010

OPTICAL FIBRE RECEIVERS

PRODUCT DESCRIPTION

The KOR001 Optical Receiver uses a high-sensitivity PIN detector. It can receive analogue and digital signals within the frequency range of 47~2600MHz on a single fibre and is compatible with any FTTx PON system to achieve a triple-network combination between Digital TV (DVB-C, DVB-T), Satellite TV (DVB-S) and Internet.

The KOR001 is wall mountable and suitable for FTTx PON.

PRODUCT FEATURES

- The receiving sensitivity range is -13dBm to +1dBm
- High linearity, suitable for Digital TV and SAT-IF application
- Wide band type: 47~2600MHz
- Digital TV (DVB-C, DVB-T) and Satellite TV (DVB-S) signal can be received via a single fibre at the same time
- Built-in WDM to separate wavelengths of 1550nm (CATV) and 1310/1490nm (data)
- LED Indicator
- Compact in design, wall mountable and light weight

PART NUMBERS	DESCRIPTION
KOR001	1550nm Optical Fibre Receiver with PON Pass (F31054)
KOR002	1550nm Optical Fibre Receiver (F31076)



KOR001

OPTICAL FIBRE AMPLIFIERS (EDFA)

PRODUCT DESCRIPTION

The KOA Series is a low noise, high performance, Fibre to the premises (FTTP) high power, multi-ports optical amplifier with a gain spectrum bandwidth within 1540~1563nm range. The output port for the optical amplifier has a built-in Coarse Wavelength Division Multiplexer to enable multiplexing with corresponding input ports connecting to a carrier OLT PON port should this be required. Each 1550nm (CATV)'s output optical port can optically multiplex with corresponding 1310/1490nm's carrier OLT PON input data stream to reduce the number of components and improve the reliability of the system.

PRODUCT FEATURES

- Built-in low noise pre-amplifier
- 1540~1563nm operating bandwidth for optical amplifier
- Optional optical output power range of 200~2500mW (23~34dBm)
- 4~32 uplink optical ports, for OLT
- 4~32 1550nm output optical ports, multiply 1310/1490 data stream
- Each output optical port includes built-in high performance CWDM, single fibre, to save optical fibre resources
- Compatible with any FTTH PON technology: EPON, GPON
- Carrier level reliability with network management
- SNMP Management interface
- Efficient space, simple and reliable in construction/maintenance
- Dual power supply, 1+1 backup

PART NUMBERS	DESCRIPTION
KOA4P	4 Port 1550nm Optical Fibre Amplifier - 15.5dBm per port (23dBm total)
KOA8P	8 Port 1550nm Optical Fibre Amplifier - 15.5dBm per port (27dBm total)
KOA16P	16 Port 1550nm Optical Fibre Amplifier - 15.5dBm per port (30dBm total)
KOA32P	32 Port 1550nm Optical Fibre Amplifier - 15.5dBm per port (34dBm total)

KOA16P



* other model variants are available upon request

OPTICAL FIBRE SPLITTERS

PRODUCT DESCRIPTION

Planar Optical Waveguide Optical Splitter (PLC Splitter) is an integration waveguide optical power distribution device that is based on quartz substrate, has a wide working wavelength range, high reliability and excellent uniformity of optical split. It is especially suitable for connecting a local unit with a terminal unit in passive optical networks (EPON, BPON, GPON, etc.) to achieve optical signal splitting. The main design divides optical signals in optical communication systems into multi-way output.

PRODUCT FEATURES

- Low insertion loss, high uniformity
- Low polarization loss
- Wide working wavelength range
- Wide working temperature range
- High stability and reliability
- 19" rack mount

PART NUMBERS	DESCRIPTION
KPLC104	4 Way PLC Splitter - 19" Rack Mount
KPLC108	8 Way PLC Splitter - 19" Rack Mount

PART NUMBERS	DESCRIPTION
KPLC116	16 Way PLC Splitter - 19" Rack Mount
KPLC132	32 Way PLC Splitter - 19" Rack Mount

KPLC116



OPTICAL FIBRE PATCH LEADS

PRODUCT DESCRIPTION

Pre-terminated single mode patch leads, with a low smoke zero halogen PVC jacket. Available in various lengths.



PART NUMBERS	LENGTH	DESCRIPTION
KLE010	0.5m	SC/APC to SC/APC Single Mode Patch Lead
KLE011	0.5m	SC/APC to SC/PC Single Mode Patch Lead
KLE012	1.0m	SC/APC to SC/APC Single Mode Patch Lead
KLE013	1.0m	SC/APC to SC/PC Single Mode Patch Lead
KLE014	1.5m	SC/APC to SC/APC Single Mode Patch Lead
KLE015	1.5m	SC/APC to SC/PC Single Mode Patch Lead

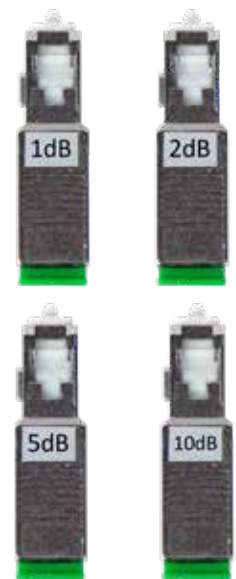
Connector Type	SC to SC	Polish Type	APC & PC
Fibre Mode	Single Mode 9/125µm	Wavelength	1310/1490/1550nm
Insertion Loss	≤0.3dB	Return Loss	≥60dB
Fibre Grade	G.652D	Minimum Bend Radius	30mm
Attenuation at 1310nm	0.36 dB/km	Attenuation at 1550nm	0.22 dB/km
Fibre Count	Simplex	Cable Diameter	3.0mm
Cable Jacket	LSZH PVC	Storage Temperature	-40~80°C
Operating Temperature	-20~60°C		

OPTICAL FIBRE ATTENUATORS

PRODUCT DESCRIPTION

SC Single Mode Male to Female Attenuator. Designed to attenuate the optical fibre signal (1260~1620) in a stable & desired level without any changes to the original transmission wave.

PART NUMBERS	DESCRIPTION
KOATT1DB	1dBm Optical Attenuator F-M SC/APC
KOATT2DB	2dBm Optical Attenuator F-M SC/APC
KOATT5DB	5dBm Optical Attenuator F-M SC/APC
KOATT10DB	10dBm Optical Attenuator F-M SC/APC



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