ASFOM FPT Series
Telephone Point-to-Point Transmission

Product Description

The KBC FPT series is part of the ASFOM product family and provides unique, user configurable solutions for telephone signals. It supports transmission of up to 64 telephone channels over either one multimode or singlemode optical fiber. Individual channels can be set to operate as either PBX extensions or emergency links. In emergency link mode lifting the handset at one end will cause the other end to ring and vice-versa.

The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to clearly show the operational status of the unit.

Depending on system requirements, units are available in wall-mount, 1U or 2U 19" rack or 3U or 4U chassis card.

Product Features

• Up to 64 telephone channels
• Emergency link mode
• Multimode and singlemode
• RJ11 Connector
• Wall-mount, rack or chassis configurations
• Unique Configurator software package
• No fixed configuration

Specifying your ASFOM Product

The easiest way to specify your ASFOM products is via our Configurator software which is available on-line at www.kbcnetworks.com or it can be sent to you electronically. Using the Configurator, simply enter the number of channels for each signal type you require, and it will work out the product and the part number for you. Alternatively, please contact your local agent or KBC direct, who will configure your product.

Typical System Configuration

Up to 120km
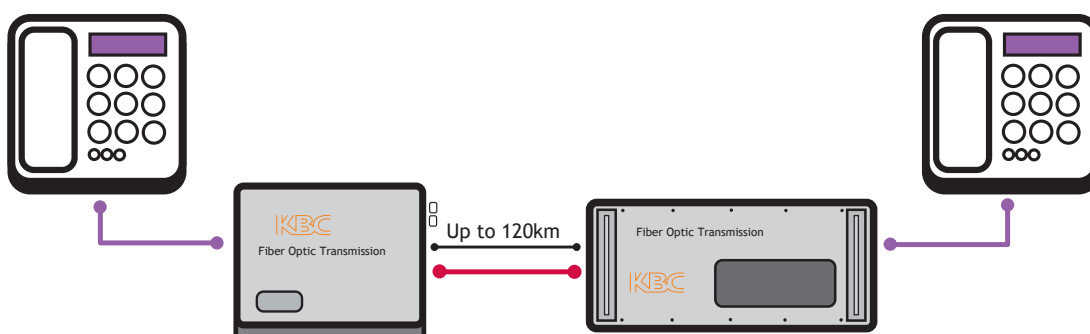
Specifications

Telephone

No. of Channels	Up to 64
Bandwidth	300 Hz ~ 3400 kHz
Input Impedance	600Ω
Output Impedance	600Ω

Optical

Wavelength	1310nm / 1550nm
Fiber	Multimode or Singlemode
Number of Fibers	1

Power

Power Input Wall-mount	+12-24 Vdc/dc
Power Supply for Wall-mount[1]	Input: 100 ~ 240 Vac
	Output: +12 Vdc
Rack Module[1]	Input: 100 ~ 240 Vac @ 2A
Chassis Card	Supplied from FR3 or FR4 PSU

Environmental

Operating Temperature	-40°~+74°C / -40°~+165°F
Storage Temperature	-40°~+74°C / -40°~+165°F
Operating Humidity	0 to 95% non - condensing
Mean Time Between Failure (MTBF)	>100,000 Hours

Mechanical

Dimensions (Wall-mount L x W x H)[5]		221mm x 155mm x 36mm (8.7" x 6.1" x 1.42")
Dimensions (Rack)	1U	19", 1U
	2U	19", 2U
Number of 3U or 4U Chassis Card Slot[2]		Depends on configuration

Connectors

Telephone		RJ11
Fiber		ST, SC or FC (ST fitted as standard)
Power[3]	Wall-mount	Screw Block Terminal
	Rack	IEC

DIP Switch Settings

PBX Extension	On / Off
Emergency Link	On / Off

Part Number Configurator

FPTD1-MT-R

No. of Telephone Channels

M: Multimode
S: Singlemode

Blank: Wall-Mount
R: 19" Rack
B: 3U Chassis Card
C: 4U Chassis Card

T: Transmitter
R: Receiver
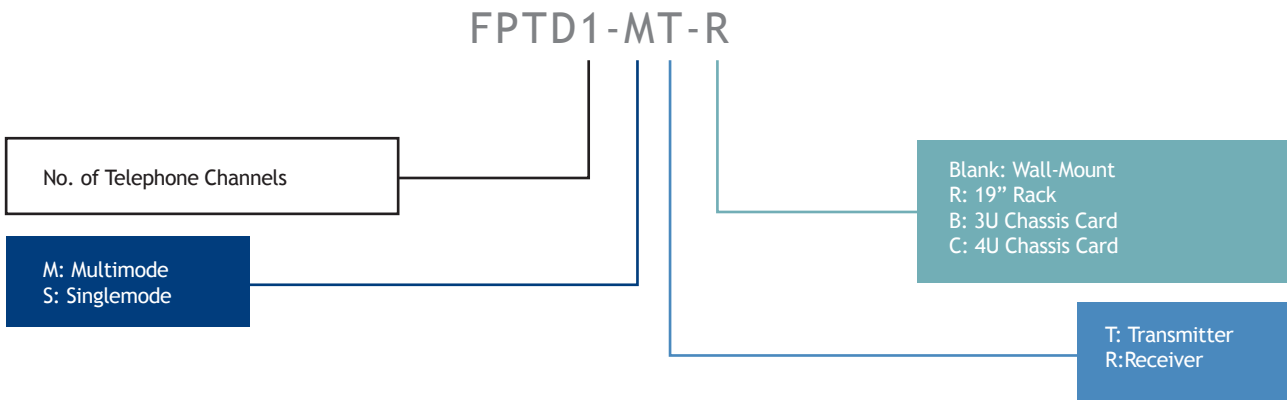
Optical Budget

Part Code	Fiber Type	No.	Optical Budget			Wavelength nm	Approximate Transmission Distance[4]
			50µm	62.5µm	9µm		
FPTD*-M*	Multimode	1	8dB	12dB		1310/1550	0~4km
FPTD*-S*	Singlemode	1			18db	1310/1550	0~30km

Transmission distances up to 120km are available please contact KBC Networks for details. All KBC Networks optical transmitters are LASER based.

1. Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin square when placing order.
2. Supports maximum of up to 14 single slot cards in each 3U or 4U Chassis.
3. Power lines are crimped and fitted to screw block connector in factory.
4. Transmission distance is limited by optical loss of the fiber and loss introduced by connectors, splices and patch panels. Fiber bandwidth also limits the transmission distance.
5. Product body dimensions. Please contact KBC Networks for product drawing and dimensions of mount.