

Product Description

The KBC FPE series is part of the ASFOM product family and provides unique, user configurable solutions for E1, 2.048 Mbps data signals. It supports transmission of up to 64 E1 channels over either one multimode or singlemode optical fiber.

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 4U chassis card.

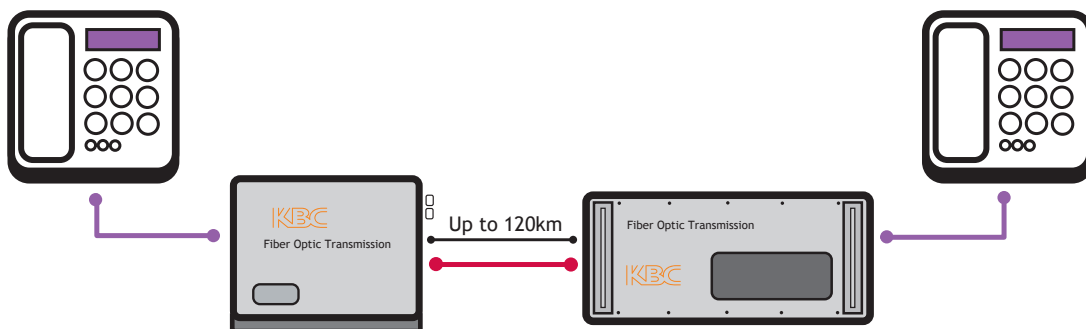


Product Features

- Up to 64 E1 channels
- Dual BNC connectors
- Multimode and singlemode
- Wall-mount, rack or chassis configurations
- Unique **Configurator** software package
- No fixed configuration



Typical System Configuration



Specifications

E1

No. of Channels	64 Max
Data Rate	2.048 Mbps
Code	HDB3/AMI
Impedance	75Ω

Optical

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

Power

Power Input Wall-mount	+12-24 Vac/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

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

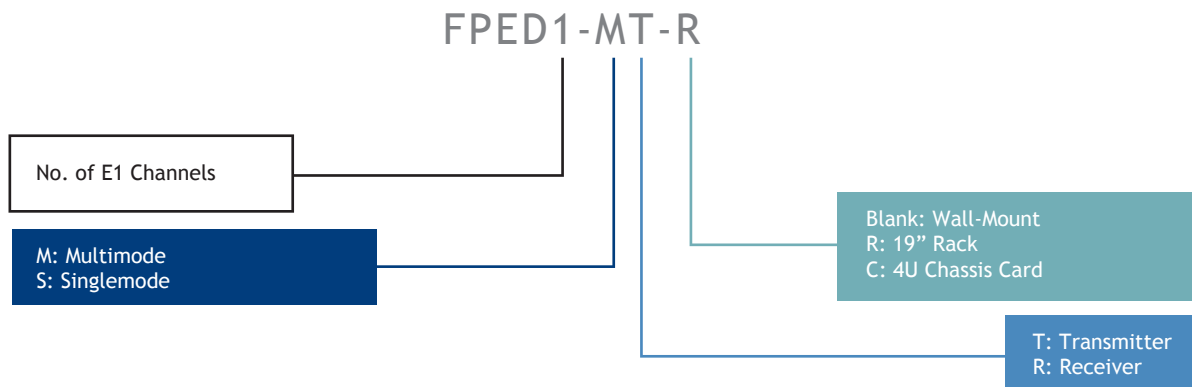
Mechanical

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 4U Chassis Card Slots ⁽²⁾	Depends on configuration	

Connectors

E1	2 x 75Ω BNC or 4-way screw block terminal	
Fiber	ST, SC or FC (ST fitted as standard) Screw block terminal	
Power ⁽³⁾	Wall-mount Rack	IEC

Part Number Configurator



Optical Budget

Part Code	Fiber Type	No.	Optical Budget			Wavelength nm	Approximate Transmission Distance ⁽⁴⁾
			50µm	62.5µm	9µm		
FPED*-M*	Multimode	1	8dB	12dB		1310/1550	0-4km
FPED*-S*	Singlemode	1			12dB	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 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.

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