



## Product Description

The KBC FTL series is a fully-ruggedized 10/100 Ethernet media converter. It supports transmission of an Ethernet channel over either one or two, multimode or singlemode optical fibers. Full duplex operation enables distances in excess of 50km on singlemode fiber. Plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to show the operational status of the unit clearly. The series is available in compact, DIN rail or 3U chassis card configurations. Up to 28 FTL media converters can be accommodated in a KBC FR3 chassis.

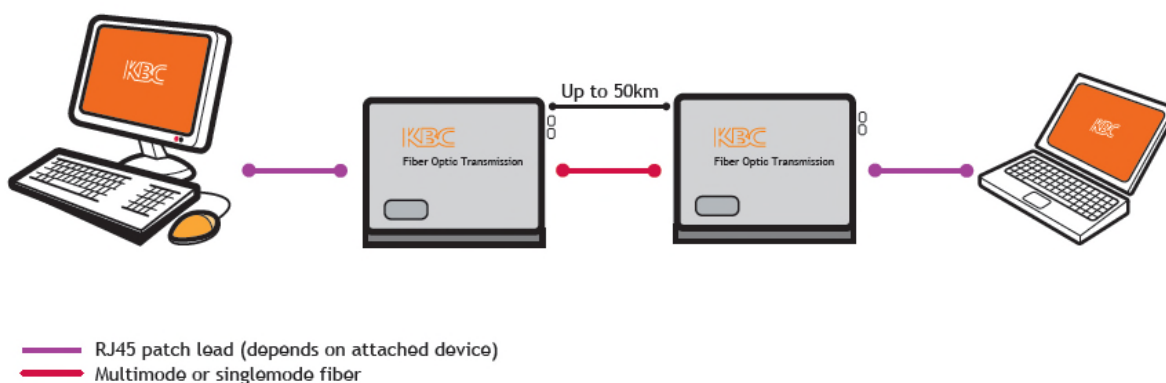


KBC 10/100 media converters are designed for transmission distances up to 4km for multimode fiber and 50km on singlemode fiber (for distances up to 80km, please contact us). If the media converter is to be connected to an SFP port, please contact us for advice since SFPs can vary in the level at which they saturate.

## Product Features

- Wide operational temperature range
- 100BASE-FX on fiber port
- Ultra-compact footprint
- 10/100 auto-sensing
- MDI / MDIX
- Single and dual fiber
- Dual module 3U chassis card

## Typical System Configuration



## Specifications

### Standards

IEEE Standards	IEEE802.3 10Base-TX IEEE802.3u 100Base-TX & 100BASE-FX IEEE 802.3x Full duplex
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### Data

Data Format	Ethernet
Two Way Channels	1
Data Rate	10/100Mbps Auto-Sensing Half & Full Duplex

### Optical

Wavelength	1310nm/1550nm
Fiber	Multimode or Singlemode
Number of Fibers	1 or 2

### Power

Power Input	12-24 Vac/dc @ 200mA
Power Supply <sup>(1)</sup>	Input: 100 ~ 240 Vac Output: +12 Vdc
Chassis Card	Supplied from FR3 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

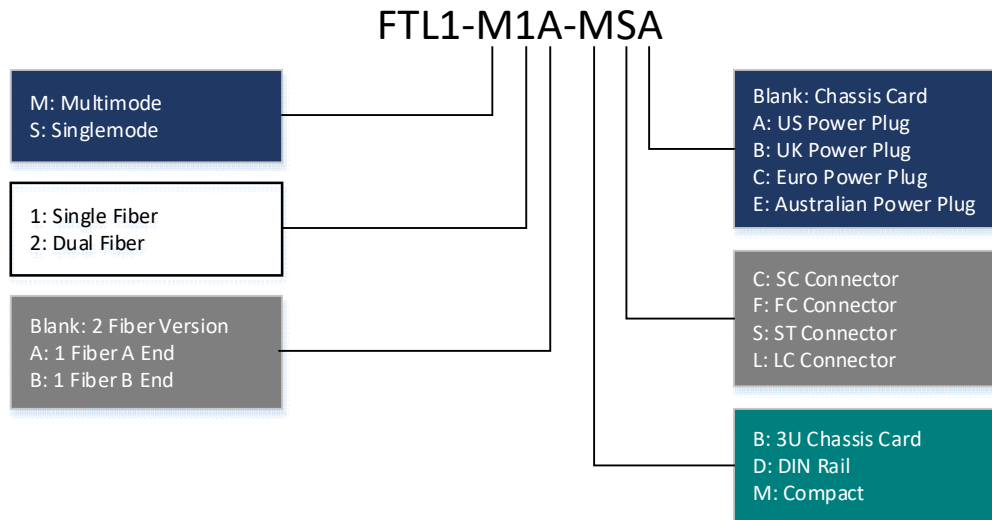
### Mechanical

Dimensions Compact (W x H x D)	70mm x 58mm x 28mm (2.8" x 2.3" x 1.1")
DIN Rail	110mm x 87mm x 25mm (4.3" x 3.4" x 0.98")
Number of 3U Chassis Card Slots <sup>(2)</sup>	1

### Connectors

10/100 Electrical	RJ-45
Fiber	ST, SC, FC or LC (ST fitted as standard)
Power <sup>(3)</sup>	Compact & DIN Rail 3-way screw block terminal

## Part Number Configurator



## Optical Budget

Part Code	Fiber Type	Fiber No.	Optical Budget		Wavelength (nm)	Approximate Transmission Distance <sup>(4)</sup>
			62.5µm	9µm		
FTL1-M1*	Multimode	1	12dB		1310/1550	0~4km
FTL1-M2*	Multimode	2	12dB		1310	0~4km
FTL1-S2*	Singlemode	2		18dB	1310	0~30km
FTL1-S1*	Singlemode	1		18dB	1310/1550	0~30km

1. Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin square when placing order.

2. Up to 14 cards in an FR3 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.

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