





Product Description

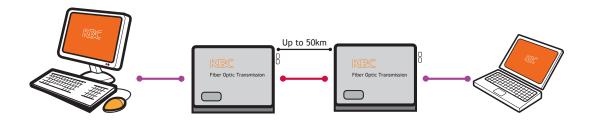
The KBC FTL series is a fully-ruggedized 10/100 Ethernet media converter. It supports transmission of an Ethernet channel over either one or two, multimode or singlemode optical fibers. Full duplex operation enables distances in excess of 50km on singlemode fiber. The plug-and-play design ensures ease 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.

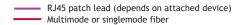


Product Features

- · Wide operational temperature range
- 100BASE-FX on fiber port
- Ultra-compact footprint
- 10/100 auto-sensing
- MDI / MDIX
- Multimode and singlemode interfaces
- · Single and dual fiber
- Up to 50km on singlemode fiber

Typical System Configuration





Specifications

IEEE Standard

Data

Data Formats Two Way Channels Data Rate

Optical

Wavelength Fiber Number of Fibers

Power

Power Input Power Supply for Compact⁽¹⁾

Chassis Card

IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX & 100BASE-FX IEEE 802.3x Full Duplex

Ethernet

10 / 100 Mbps auto-sensing Half & full duplex

1310nm / 1550nm Multimode or singlemode

1 or 2

12-24 Vac/dc @ 200mA Input: 100 ~ 240 Vac Output: +12 Vdc

UL and cUL listed PSU Supplied from FR3 PSU **Environmental**

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

Mechanical

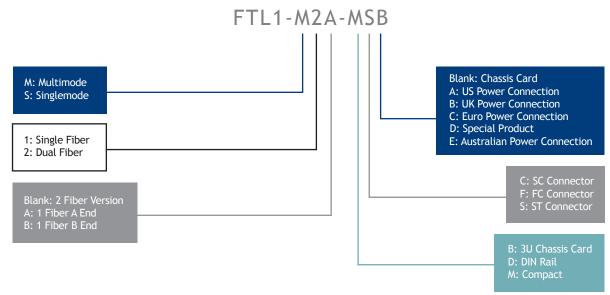
Dimensions (Compact W x H x D) 70mm x 58mm x 28mm (2.8" x 2.3" x 1.1")

Number of 3U Chassis Card Slots⁽²⁾

10/100 Electrical 1 x RJ45 ST, SC or FC Fiber

(ST fitted as standard) Power⁽³⁾ Compact & DIN Rail 2-way screw block terminal

Part Number Configurator



Optical Budget

Part Code	Fiber Type	No.	Optical Budg 50µm	et 62.5µm	9µm	Wavelength nm	Approximate Transmission Distance ⁽⁴⁾
FTL1-M2*	Multimode	2	8dB	12dB		1310	0~4km
FTL1-S2*	Singlemode	2			20dB	1310	0~30km
FTL1-S1*	Singlemode	1			20dB	1310/1550nm	0~30km
FTL1-S2*-**D	Singlemode	2			20dB	1310	0~50km
FTL1-S1*-**D	Singlemode	1			20dB	1310/1550nm	0~50km

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 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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