

# FTLS1 Series

10/100 Ethernet Media Converter with PoE



## **Product Description**

The KBC FTLS1 series is a fully ruggedized 10/100 Ethernet Media Converter with PoE (Power over Ethernet). The unit acts as a PSE (Power Sourcing Equipment) providing 25.5W @ 48Vdc and is fully-compliant with the IEEE 802.3at specification. 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 30km on singlemode 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.

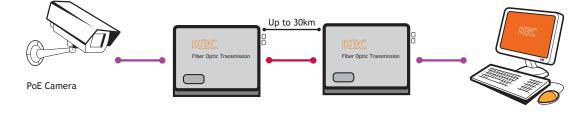
KBC 10/100 media converters are designed for transmission distances up to 4km for multimode fiber and 50km on singlemode fiber (for distances up to 80km, please contact us). If the media converter is to be connected to an SFP port, please contact us for advice since SFPs can vary in the level at which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

The FTLS1 series is available in a wall-mount configuration only.

#### **Product Features**

- IEEE 802.3at compliant
- Wide operational temperature range
- Mode A Mode B Switchable
- 100BASE-FX on 2 fiber units
- 10/100 auto sensing
- Multimode and singlemode interfaces
- Single and dual fiber

# **Typical System Configuration**



RJ45 patch lead (depends on attached device)
Multimode or singlemode fiber



### **Specifications**

Data Formats Two Way Channels Data Rate

Standard

PoE Standard Power Supplied

#### Optical

Wavelength Fiber Number of Fibers Standard<sup>(1)</sup>

Power

Power Input Power Supply for Wall-mount<sup>(2)</sup> Ethernet 10 / 100Mbps Auto Sensing Half & Full Duplex IEEE 802.3 10BASE-T, 100BASE-TX

IEEE 802.3at +48Vdc @ 25.5W

1310nm / 1550nm Multimode or Singlemode 1 or 2 IEEE 802.3 100BASE-FX

+48Vdc Input: 100 ~ 240 Vac; Output: +48 Vdc

#### Environmental

Operating Temperature Storage Temperature Operating Humidity Mean time Between Failure (MTBF)

Mechanical Dimensions (Wall-mount L x W x H<sup>(6)</sup>)

Connectors Ethernet Fiber

Power<sup>(4)</sup>

Switch Settings PoE mode

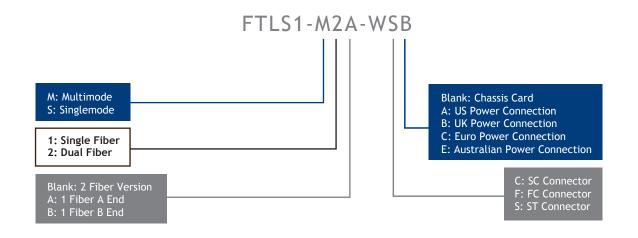
-40 ~ +70°C / -40 ~ +158°F -40 ~ +70°C / -40 ~ +158°F 0 to 95% non-condensing >100,000 Hours

135mm x 102mm x 42mm (5.31" x 4.02" x 1.65")

RJ45 ST, SC or FC (ST fitted as standard) Screw Block Terminal

A or B

### Part Number Configurator



#### **Optical Budget**

Part Code	Fiber Type	No.	Optical Budg 50µm	get 62.5µm	9µm	Wavelength nm	Approximate Transmission Distance(4)
FTLS1-M2*	Multimode	2	8dB	12dB		1310	0~4km
FTLS1-M1*	Multimode	1	8dB	12dB		1310/1550nm	0~4km
FTLS1-S2*	Singlemode	2			20dB	1310	0~30km
FTLS1-S1*	Singlemode	1			20dB	1310/1550nm	0~30km

Transmission distances up to 80km are available please contact KBC Networks for details. All KBC Networks optical transmitters are LASER based. SFPs can vary in the level at which they saturate, so if the media converter is to be connected directly to an SFP port, please contact us for advice.

1. 100BASE-FX compliant on 2 fiber interface only.

Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin square when placing order.
Supports maximum of up to 14 single slot cards in each 3U Chassis.
Power lines are crimped and fitted to screw block connector in factory.

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<sup>5.</sup> 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.