**Product Description**

The KBC FTL series is a fully ruggedised 10/100 Ethernet media converter. It supports transmission of an Ethernet channel over either one or two, multimode or singlemode optical fibres. Full duplex operation enables distances in excess of 45km on singlemode fibre. 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. This series is available in either wall mount, din rail or 3U chassis card configurations.

**Product Features**

- Fully ruggedised Ethernet media converter
- 10/100 auto sensing
- Singlemode & multimode models
- Supports half and full duplex operation
- Up to 14 media converters in one 3U chassis
- Wall mount, din rail and 3U chassis card configurations

**Typical System Configuration**

![Diagram of typical system configuration with up to 42km distance, RJ45 patch lead (depends on attached device), and multimode or singlemode fibre.]
**Specifications**

**DATA**
- Data Formats: Ethernet
- Two Way Channels: 1
- Data Rate: 10/100 Mbps Auto Sensing
- Standard: IEEE 802.3 10/100 BASE-T

**OPTICAL**
- Wavelength: 1310nm/1550nm
- Fibre: Multimode or Singlemode
- Number of Fibres: 1 or 2

**POWER**
- Power Input (Wall Mount): +5Vdc
- Power Supply: Input: 100~240VAC; Output: +5Vdc
- Chassis Card: Supplied from FR3 PSU

**ENVIRONMENTAL**
- Operating Temperature: -40°C ~ +70°C / -40°F ~ +158°F
- Storage Temperature: -40°C ~ +70°C / -40°F ~ +158°F
- Operating Humidity: 0 to 95% non-condensing
- Mean Time Between Failure (MTBF): > 100,000 Hours

**MECHANICAL**
- Dimensions L x W x H Wall Mount: 135mm x 116mm x 36mm / 5.32” x 4.57” x 1.42”
- Dimensions L x W x H Din Rail: 110mm x 87mm x 25mm / 4.33” x 3.43” x 0.98”
- Number of 3U Chassis Card Slot: 1

**CONNECTORS**
- Ethernet: RJ45
- Fibre: ST or FC (ST fitted as standard)
- Power: Screw Block Terminal (for Wall Mount and Din Rail)

**Part Number Configurator**

**FTL-M1T-BSB**

**Optical Budget**

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Fibre Type</th>
<th>No.</th>
<th>Optical Budget</th>
<th>Wavelength nm</th>
<th>Approximate Transmission Distance</th>
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</thead>
<tbody>
<tr>
<td>FTL-M2*</td>
<td>Multimode 2</td>
<td>15dB</td>
<td>1310</td>
<td>0<del>4km / 0</del>2.5miles</td>
<td></td>
</tr>
<tr>
<td>FTL-M1*</td>
<td>Multimode 2</td>
<td>15dB</td>
<td>1310/1550</td>
<td>0<del>4km / 0</del>2.5miles</td>
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<tr>
<td>FTL-S2*</td>
<td>Singlemode 2</td>
<td>15dB</td>
<td>1310</td>
<td>0<del>15km / 0</del>28miles</td>
<td></td>
</tr>
<tr>
<td>FTL-S1*</td>
<td>Singlemode 2</td>
<td>15dB</td>
<td>1310/1550</td>
<td>0<del>15km / 0</del>28miles</td>
<td></td>
</tr>
</tbody>
</table>

1. Please select the power plug from US Standard, Euro 2 Circular or UK 3 Pin Square when placing order.
2. Support maximum up to 14 cards for 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 fibre and loss introduced by connectors, splices and patch panels. Fibre bandwidth also limits the transmission distance.

Due to ongoing technological improvements, product specifications are subject to change without notice.