



COE® X-Net Fast Media Convertor



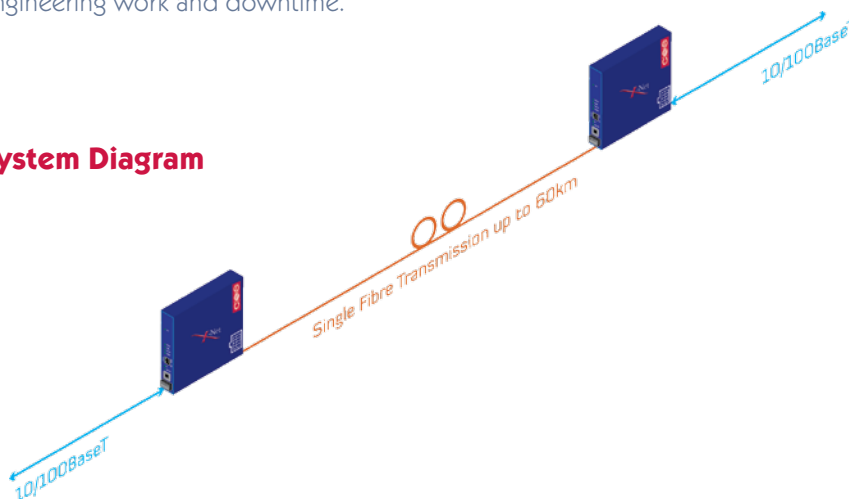
Ethernet to fibre media convertor for long distance Ethernet transmission over fibre optic cable.

The X-Net 10/100BaseT Fast Ethernet Media Convertor provides media conversion from copper to fibre and vice versa coupled with long distance transmission over a single fibre optic cable. Ideal for applications that require fast Ethernet over fibre such as ANPR, IP Codecs, IP Cameras, Megapixel Cameras, Wireless LAN and IP Inter-com etc.

Features & Benefits

- ▶ **Ethernet LAN Extender** - Essential for Ethernet cable runs greater than 100 metres, the X-Net Fast Media Convertor is the most cost-effective reliable solution for mixed copper/fibre extensions to LANs, campus networks and Metropolitan Area Networks.
- ▶ **Easy Integration** - The X-Net Fast Media Convertor module uses the common X-Net racking and box system and can be utilised in conjunction with the X-Net range of IP codecs to provide IP video transmission directly over fibre optic cable.
- ▶ **Hot pluggable SFP laser optics** - All X-Net transmission products utilise COE's exclusive SFP hot pluggable lasers. These can be removed and replaced in seconds in order to allow you to increase transmission range >120km, and safe-proof your equipment eliminating costly engineering work and downtime.
- ▶ **Single Fibre Utilisation** - Only a single fibre optic core is required for full duplex, bi-directional operation.
- ▶ **Easy Installation** - The auto-negotiating Ethernet function empowers the RJ-45 port on the X-Net Fast Media Convertor to negotiate transmission speed and mode with per devices automatically, and the Auto-crossover Ethernet port can present circuit mismatch problems by auto-sensing MDI/MDIX configuration. With these intelligent functions, X-Net Fast Media Convertor can be paired with any standard Ethernet device via a UTP/STP cable.
- ▶ **Easy Trouble Shooting** - The X-Net Fast Media Convertor provides detection of remote cable connectivity, and associated alarms LEDs to provide quick and intuitive fault indication.

System Diagram





Sales Codes

| | |
|-----------------------|--|
| XNETMEDIA100TX | 10/100BaseT to 100FX, auto-sensing, auto-negotiating media convertor for singlemode and multimode fibre. Supplied with single fibre SFP optical laser. |
| XNETMEDIA100RX | 100FX to 10/100BaseT, auto-sensing, auto-negotiating media convertor for singlemode and multimode fibre. Supplied with single fibre SFP optical laser. |
| XNETBOXSINGLE | X-Net Module box housing kit - Single unit |
| PSU12VDC | Stand alone 12VDC/1.25 amp output power supply. Input is 100-264VAC via. IEC connector |

Performance and Specifications

Connector & Interface

| | |
|--------------------------------|---|
| RJ-45 | CAT-5/(10/100Mbps) Twisted Pair cable Auto MDI/ MDI-X and Auto-Negotiation Support |
| Fibre | LC, SFP Hot pluggable |
| Link Fault Pass Through | Supported |

Optical

| | |
|---|-----------------------------|
| Optical Budget (dB) | 20dB (up to 37dB available) |
| Range on 50 or 62.5/125um multimode fibre (km) | 4 typical |
| Range on 9/125um singlemode fibre (km) | 60 (>120km available) |
| Connector | LC |
| Wavelength (nm) | 1310/1550nm |

LED Functions

- Power Status
- 10/100 Ethernet status
- Ethernet port link status
- Fibre port link status
- Fibre signal detection
- Copper port full duplex/half duplex status
- Fibre full duplex/half duplex status
- Fault/auto-negotiation status
- Link loss forwarding/remote fault monitoring

Environmental

| | |
|------------------------------|----------------------------|
| Operating temperature | -10°C - +70°C |
| Storage temperature | -40°C - +74°C |
| Humidity | 5% to 95% (Non-Condensing) |

Mechanical

| | |
|-------------------|------------------|
| Dimensions | 6HP x 4U x 167mm |
|-------------------|------------------|

Power Requirements

| | |
|--------------|-------------|
| Power | DC12V/150ma |
|--------------|-------------|

MTBF

| | |
|-----------------|----------------|
| Duration | >100,000 hours |
|-----------------|----------------|

Standards Compliance

- IEEE802.3 10Base-T
- IEEE802.3u 100Base-TX
- IEEE802.3x Flow Control and Back pressure

EMC

- EN55022 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2.6kV(C), 8kV (A), EN61000-4-3 10V/m, EN50204 20V/m, EN61000-4-6 10V, EN61000-4-4 2kV, EN61000-4-5 2kV, EN61000-4-8 50Hz & dc 100A/m, EN61000-4-9 300A/m, EN61000-4-11, EN60950-1:2002 +A1:2003, EN60825-2:2000

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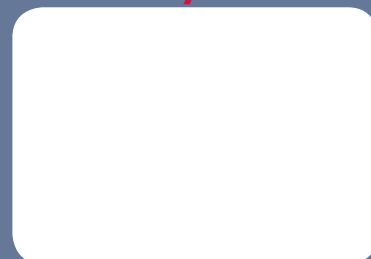
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