



COE X-Net™ Media Converter



A cost effective ethernet to fibre media converter for mixed copper/fibre environments

The X-Net Media Converter converts media transmission between UTP Copper cablings and fiber SFP (Small Form-Factor Pluggable) Transceivers. The copper-to-fiber module is 1000 Mbps Gigabit Ethernet type, allowing seamless integration between Fast/Gigabit Ethernet networks using unshielded twisted pair (UTP) copper cabling, and Gigabit fiber networks.

System Features and Benefits

Long-haul Gigabit Ethernet - Depending on the distance between two sites, users can select and insert proper SFP Transceivers into the slots for different network environments: multi-mode SFP for short distance (up to 550m) or single-mode SFP for long distance (from 10km to 100 Km). Regardless of the scale of deployment, the X-Net Media Converter is the most cost-effective, flexible solution for mixed copper/fibre environments like LANs, campus networks or even Metropolitan Area Networks.

Easy Troubleshooting - With the Link Loss Forwarding mechanism activated, any detected broken link on the RJ-45 Ethernet port will force the fiber port to take over, and the fibre uplink port will stop transmitting then "turned off" as soon as the remote link is down. Transparent link status will be delivered by the Link Loss Forwarding mechanism to facilitate the troubleshooting process.

Easy Installation - The Auto-negotiating Ethernet function empowers the Gigabit RJ-45 port on X-Net Media converter to negotiate transmission speed and mode with peer devices automatically; and the Auto-crossover Ethernet port can prevent circuit mismatch problems by auto-sensing MDI/MDIX configuration. With these intelligent functions, X-Net media converter can be paired with a switch, a NIC (Network Interface Card) or a Gigabit Ethernet device via a UTP/STP cable easily.

Easy Integration - The X-Net Media Converter module uses the common X-Net rack, thus providing uncompressed digital video transmission directly over fibre and IP video transmission over fibre from the same rack. This allows easy mix n match of uncompressed and compressed digital modules while minimizing the cost of additional infrastructure.

Sales Codes

X-Net Media Converter

X-Net 1 x Ethernet/Fibre media converter module. Requires a 1.25 Gbps SFP to operate.



Performance and Specifications

Standards Compliance

IEEE802.3 10BASE-T
 IEEE802.3u 100BASE-TX
 IEEE 802.3ab 1000Base-T
 IEEE 802.3z 1000Base-SX/LX standards
 IEEE802.3x Flow Control and Back pressure

Connector & Interface

RJ-45 CAT-5(100/1000Mbps) Twisted
 Pair cable Auto MDI/MDI-X and
 Auto-Negotiation Support

Fibre LC (SFP 3.3V)

Link Loss Forward

Tx To Fibre If TX port link is broken, then
 converter will force the fibre to
 link down.

Fibre to Tx If Fibre port link is broken, the
 media converter will force the TX
 port to link down.

DIP Switch

DIP Switch 1 Fiber Auto-Negotiation
 /1000Mbps Full Duplex mode

DIP Switch 2 TX to Fiber LLF(Link Lose
 Forwarding) Disable/Enable

DIP Switch 3 Fiber to TX LLF(Link Lose
 Forwarding) Disable/Enable

Environmental

Operating temperature 0 °C to +45 °C
 Storage temperature -10 °C to +70 °C
 Humidity 10% ~ 90%, non-condensing

Mechanical

Dimensions 6HP x 4U x 167mm

Power requirements

Standalone DC 12V/0.7A



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In line with the company policy of continuous
 improvement, COE reserves the right to vary
 descriptions and specifications without notice.

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