Optospan

10/100/1000BASE-T
TO SFP GIGABIT POE PSE MEDIA CONVERTER

MCX-1PS-XXXXLXX

Convert Fiber and Copper Network Cables At Gigabit Speeds

OptoSpan fiber media converters provide a low cost, energy-efficient solution for connecting two different network segments, including fiber-to-copper, via Power Over Ethernet (PoE). OptoSpan media converters support Ethernet connections at distances up to 80 kilometers and come equipped with a powered device (PD) signature for detecting and monitoring power, as well as over-current protection, under-current detection and fault protection input. They also include link fault pass-through capabilities, monitoring fiber and copper ports to prevent signal or data loss. All converters comply with the IEE802.3af Power Over Ethernet standard.

FEATURES

- IEEE802.3af PoE (Power over Ethernet) PSE compatible
- Supports one 10/100/1000Base-T Gigabit Ethernet UTP port and one 1000Base-SX / LX (SFP) Gigabit Ethernet Fiber port
- PSE MDI power enable/disable
- Supports 802.3x flow control for full-duplex ports and backpressure for half-duplex ports
- Link fault passthrough monitors both copper and fiber receive ports for loss of signal.
- Far-end fault detection prevents the loss of valuable data from it being sent over an invalid link.
- Supports auto mode on the TP port
- DIP switch to set configurations
- Jumbo frame support (Normal Mode: 2KB, Cut-Through Mode: 9KB)

APPLICATIONS

- 10/100/1000 Gigabit Ethernet

RoHS
2002/95/EC

TECHNICAL SPECIFICATIONS

Parameter	Typical Value	Parameter	Typical Value
Standards	EEE802.3 10Base-T, IEEE802.3u 110ase-TX, IEEE802.3z/ab 1000Base-T, IEEE802.3x full-duplex flow control, 1000Base-SX/LX	DIP switch	DIP 1: LFP/LFP DIS DIP 2: PoE/PoE DIS DIP 3: Bridge Mode/Cut Through Mode
Interface	10/100/1000Base-TX: STP RJ-45, Auto-Negotiation, Auto-MDIX 1000Base-SX/LX: SFP slot	Jumbo frame	Normal Mode: 2KB Cut-Through Mode: 9KB
Cable	UTP: Cat. 5 cable Fiber: 1000SX: 50/125, 62.5/125, or 100/140µm multi-mode 1000LX: 8.3/125, 8.7/125, 9/125 or 10/125µm single-mode	LED Indicators	FX LNK/ACT(Green), TP LNK/ACT(Green), PWR(Green) TP SPD (1000M Green; 100M Yellow) PoE PSE-TP(Green: PoE is active; Red: PoE is disrupted) 4W, 7W,15.4W(PD Class Type, Green)
		Power Consumption	19W
Data Transfer Rate	2000Mbps/full-duplex	Power Supply	Internal Power supply 100~240VAC, 50/60Hz
PoE	IEEE802.3af PoE PSE, End-Span via TP pin 1, 2, 3, 6 Over-current protection , Under-current detection Minimum load sensing , Fault Protection Input PSE MDI power enable/disable	Environment	Operating Temperature: 0°C to 50°C Operating Humidity: 5% to 90% (Non-Condensing)
		Dimension	L158 * W133 x H40 mm
		Certification	FCC, CE