IECP-UTX1F Industrial POE Fiber Converter

Benefits

- System Interface/Performance
  - RJ-45 port support Auto MDI/MDI-X Function
  - Auto Negotiation Speed, Half/Full Duplex
  - Store-and-Forward Switching Architecture
  - Support Wide Operating Temperature (-40℃ ~75℃)
- Case/Installation
  - IP-30 Protection
  - DIN Rail and Wall Mount Design
- Power Supply
  - Wide-range Redundant Power Design 44-56VDC
- Power Polarity Reverse Protect
- Overload Current Re-settable Fuse Present

Standard Compliance

Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3u 100Base-FX Fast Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.3af for POE IEEE 802.3at for POE+

Hardware Specification

Switch Architecture	Backplane(Switching Fabric): 600M bps
MAC Address Table Size	1K
Switch Architecture	Store and Forward
Network Connector	2 RJ-45 10/100M BaseT(X) Auto negotiation, Auto MDI/MDI-X function, Full/Half duplex, POE+ 802.3af/at PSE port; Fiber ports: 100M MM SC 2km, 100BaseFX WDM SM 15km, SC, ST, SC SM 30km, Models available to support PSE port 60-72W PSE
Network Cable	UTP/STP above Cat.5e Cable EIA/TIA-568 100-ohm (100m)
Protocol	CSMA/CD
LED	PW (Power) – Green: ON = power good Relay LED - Yellow: ON = alarm being triggered. OFF = normal state Twisted Pair - Green: ON = Link, Flash = TX/RX Optical Fiber - Green: ON = Link, Flash = TX/RX PoE – Yellow: ON = power output, Flash = power overload OFF = power disconnected
DIP Switch Function	Dip 1 – activate port 1 with smart link to alarm relay. Dip 2 – activate port 2 with smart link to alarm relay. Dip 3 – activate port 3 with smart link to alarm relay. Dip 4 – Link Fault Pass-Through (LFP) Enable

Reverse Polarity protection	Present
Overload current protection	Present
Power Input	VDC 44~56V
Power Consumption	Max power consumption 3 Watts without POE Max POE per port 72 Watts at 56VDC input
Removable Terminal Block	Provide 4 pin terminal block, V+, V-, and Relay Wire range: 0.34mm^2 to 2.5mm^2 Solid wire (AWG):12-24/14-22 Stranded wire(AWG): 12-24/14-22 Torque:5lb-In/0.5Nm/0.56Nm Wire Strip length: 7-8mm
Alarm Relay	24VDC @ 1A. Normal state – open, Relay LED OFF Triggered states – short, Relay LED ON
Operating Temperature	-40℃~75℃ fully tested.
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40℃~85℃
MTBF (mean time between failure)	510,304 hrs (MIL-HDBK-217F) at 25°C
Housing	Rugged Metal ,IP30 Protection
Case Dimension	103.5mmx32mmx81.5mm (LxWxD)
Installation mounting	DIN Rail mounting, wall mounting
Certification	
EN55022/24	ITE equipment
EN50155(pending)	Railways Applications Electronic Equipment used on Rolling Stock
EN55011	Industrial, Scientific and Medical (ISM) equipment
EN50121-3-2	Railway Applications – Electromagnetic Compatibility – Part 3-2 Rolling Stock - Apparatus
EN50121-4 (pending)	Railway Applications – Electromagnetic Compatibility – Part4 Emissions and Immunity of the Signaling and Telecommunications Apparatus
Safety	IEC EN60950-1
EMC/EMS	CE, FCC, VCCI
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
EN 50155 / EN 60068-2-6	Vibration
EN 50155 / EN 60068-2-27	Shock
EN 50155 / EN 60068-2-32	Free Fall

Order Information

Product Name	Description
IECP-UT011T1F(SC/MM)	Industrial POE Fiber Converter: 1 x 10/100MTX 30 Watts 802.3at PSE + 1 x 100/1000TX + 1 x 100M SC, MM 2km -40℃~75℃ 44-56 VDC
IECP-UT011T1F(SC/SM30)	Industrial POE Fiber Converter: 1 x 10/100MTX 30 Watts 802.3at PSE + 1 x 100/1000TX + 1 x 100M SC, SM 30km -40℃~75℃ 44 -56 VDC
IECP-UT011T1F(SC/MM)-60	Industrial POE Fiber Converter: 1 x 10/100MTX 60 Watts 802.3at PSE + 1 x 100/1000TX + 1 x 100M SC, MM 2km -40℃~75℃ 44-56 VDC
IECP-UT011T1F(SC/SM30)-60	Industrial POE Fiber Converter: 1 x 10/100MTX 60 Watts 802.3at PSE + 1 x 100/1000TX + 1 x 100M SC, SM 30km -40℃~75℃ 44-56 VDC

Note: WDM transceiver models upon request for special tailor