

ET1111P Series

Industrial 10/100BASE-TX to 100BASE-FX Ethernet Media Converter with PoE/PSE



OT Systems combines Ethernet and Fiber with its new, fast ET1111P Series media converter. The ET1111P Series connects 10/100Base-TX to 100Base-FX offering a seamless integration of two popular network technologies. As an added benefit, the ET1111P Series also provides Power over Ethernet (PoE) for those remote applications without additional power sources. The ET1111P complies with 802.3af PoE standards for reliable operation. Designed for easy and flexible installation, the ET1111P Series features Wall or DIN-Rail mounting options.

Features

- Complies with 802.3af PoE/PSE technology
- DIP switch configuration for “Link-Fault-Pass Through” speed, duplex mode
- 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- 2.25M bits buffer memory
- Aluminum case
- Support Wall-mount, DIN-Rail installation
- -10°C to 60°C (14°F to 140°F) operating temperature

Ordering Information

Model	Description			
ET1111P-X-YY	10/100Base-TX to 1-port 100Base-FX Ethernet Media Converter with PoE/PSE			
(X) =	Fiber Options	Wavelengths	Link Budget	Max. Distance
A	Multimode/2-fiber/SC	1310nm	11 dB	2 km
B	Singlemode/2-fiber/SC	1310nm	17dB	20 km
C	Multimode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	18dB	2 km
D	Multimode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	18dB	2 km
E	Singlemode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	17dB	20 km
F	Singlemode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	17dB	20 km
(YY) =	Installation	Power Adapter (Purchase Separately)		
SA	Standalone Wall-mount	AS-120P-48. 120W/2.5A 48VDC Power Adapter. DC Jack with latch. (US, European, UK or Australian power plug available)		
DR	DIN-rail	DR-75-48. 75W/1.6A 48VDC DIN-rail Power Supply. Open wire for Terminal Block.		

NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.

(2) Operating distance of multimode is limited by the characteristics of the fiber bandwidth .

(3) Please feel free to consult factory for any special requirement and customization

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Specifications

Ethernet		Environmental	
Standards:	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX/FX IEEE802.3af PoE	Operating Temperature:	-10°C to 60°C (14°F to 140°F) Tested -20°C to 70°C (-4°F to 158°F)
Packet Buffer Memory:	2.25M bits	Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Processing Type:	Store and forward Half-duplex back-pressure and IEEE802.3x Full-duplex flow control	Relative Humidity:	5% to 95% non-condensing
Forward and Filter Rate:	14,880pps (10Mbps) 148,810pps (100Mbps)	Regulatory Approvals	
Cabling:	10Base-T: Cat5 or above 100Base-TX: Cat5 or above	ISO9001 FCC Part 15, Class A VCCI, Class A EN61000-6-4: -EN55022 -EN61000-3-2 -EN61000-3-3 EN61000-6-2: -EN61000-4-2 (ESD Standards) Contact: +/- 4KV; Criteria B Air: +/- 8KV; Criteria B -EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A -EN61000-4-4 (Burst Standards) Signal Ports: +/- 4KV; Criteria B D.C. Power Ports: +/-4KV; Criteria B -EN61000-4-5 (Surge Standards) Signal Ports: +/-1KV; Line-to-Line; Criteria B D.C. Power Ports: +/-0.5KV; Line-to-earth; Criteria B -EN61000-4-6 (Induced RFI Standards) Signals Ports: 10V _{rm} @0.15~80MHz; 80% AM Criteria A D.C. Power Ports: 10V _{rm} @0.15~80MHz; 80% AM Criteria A -EN61000-4-8 (Magnetic Field Standards) 30A/m@50, 60Hz; Criteria A	
Maximum Distance:	Cat5 UTP up to 100m	IEC60068-2-6 Fc (Vibration Resistance): 5g@10~150Hz, Amplitude 0.35mm (Operation/Storage/ Transport) IEC60068-2-27 Ea (Shock): 25g@11ms (Half-Sine Shock Pulse; Operation) 50g@11ms (Half-Sine Shock Pulse; Storage/Transport) IEC60068-2-32 Ed (Free Fall): 1m	
Connector:	1 x RJ45		
Optical			
Cabling:	62.5/125µm (Multimode) 9/125µm (Singlemode)		
Maximum Distance:	2km (Multimode) 20km (Singlemode)		
Wavelength:	1310 nm 1310/1550nm		
Connector:	SC		
Electrical and Mechanical			
Input Power:	48VDC (Terminal Block and DC Jack)		
Power Consumption:	3.6W Max. 0.075A@48VDC 19.2W, 0.4A@48VDC when PoE link on PD Class 0		
Protection:			
Overload Current:	Present		
Reverse Polarity:	Present		
LED Indicators:			
Power:	Power Status		
10/100TX(Per Port):	Link/Activity, Full-duplex/Collision, Speed		
100FX(Per Port):	Link/Activity		
PoE:	PD connect/ PD disconnect		
Dimensions (WxDxH):	70 X 110 X 30 mm		
Weight:	0.25Kg		
Casing:	Aluminum case		
Mounting Options:	Wall-mount DIN-rail (Top hat type 35mm)		