

EC1212Pp-X-Mini Series

Mini-Type 10/100/1000Base-TX (PoE+) to 1000Base-FX Ethernet Media Converter

Media Converters

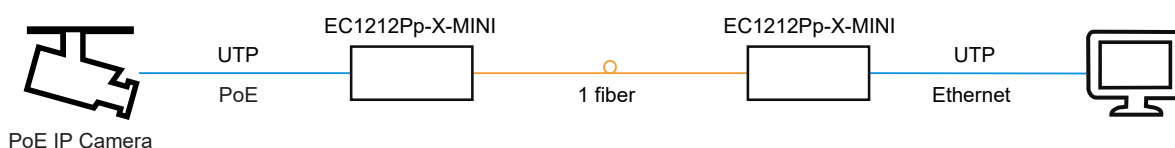
Gigabit PoE Media Converters



Features

- ▶ Unit and Port LEDs allow for quick status information
- ▶ Complies with 802.3af/at PSE standard (30W)
- ▶ Auto-Negotiation
- ▶ Fixed Full-Duplex on fiber
- ▶ Auto-MDI/MDIX
- ▶ Automatic Link Restoration
- ▶ Eliminate Collision Domains
- ▶ 10/100/1000Base-TX UTP to 1000Base-FX fiber media conversion Support IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX standards
- ▶ DIP switch to set different configurations
- ▶ LFP (Link Fault Pass-through) support
- ▶ Compact package size

Typical Application



Specifications

Ethernet

Standards	IEEE802.3i 10Base-T IEEE802.3u 100Base-TX & 100Base-FX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x Flow Control IEEE802.3af 15W PoE IEEE802.3at 30W PoE+
Processing Type	Store and forward
Forward Filter Rate	14,880pps (10Mbps) 148,800pps (100Mbps) 1,488,000pps (1000Mbps)
Cabling	10Base-TX Cat5 or above 100Base-TX: Cat5 or above; 1000Base-TX: Cat5 or above; Max. length up to 330 ft. (100m)
Jumbo Frames	9K

Interface

RJ45 port	10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDI-X
Optical	SC
LED Indicators	Power; SFP/1x9 Link/Activity; RJ45 Link/Activity, Speed, Duplex; PoE
DIP Switch	#1 LFP (Link Fault Pass Through) ON/OFF; #2 ALS (Only for SFP) ON/OFF; #3 FX Reset ON/OFF;



Optical

Cabling	62.5/125µm (Multimode) 9/125µm (Singlemode)
Maximum Distance	2Km (Multimode) 20Km (Singlemode)
Wavelength	1310nm 1310/1550nm
Connector	SC

Electrical and Mechanical

Input Power	48-56VDC
Power Consumption	35W, 0.78A@48VDC (30W PoE in use) 5W, Max. 0.1A@48VDC (PoE not in use)
Protection	Over Currency
Dimensions	94 x 71 x 26 mm
Weight	200g
Casing	Metal case, IP30
Mounting Options	Desktop and Wall Mount

Environmental

Operation Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Relative Humidity	5% to 95% non-condensing
MTBF	> 100,000 hrs

Regulatory Approvals (Pending)

FCC Part 15 Subpart B
RoHs
EN 55022:2010
EN 61000-3-2:2006+A1:2009+A2:2009
EN 61000-3-3:2013
EN 55024:2010

Ordering Information

Available Model	Description
EC1212Pp-X-MINI	Mini-Type 10/100/1000Base-TX (PoE+) to 1000Base-FX Ethernet Media Converter

(X) =	Fiber Options	Wavelengths	Link Budget	Max. Distance
A	Multimode/2-fiber/SC	1310nm	15dB	2km
B	Singlemode/2-fiber/SC	1310nm	19dB	20km
C	Multimode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	15dB	2km
D	Multimode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	15dB	2km
E	Singlemode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	19dB	20km
F	Singlemode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	19dB	20km

Package Checklist

■ Gigabit Ethernet Media Converter	x 1
■ 52VDC power adapter	x 1
■ Quick Installation Guide	x 1

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.

