



PRODUCT INFORMATION

PoE++ Type 3 Media Converter

Powered Device (PD): 60W

PoE++ Type 3 (60W) media converters allow the user to connect fiber to copper via powered PoE+ devices which require power exceeding the PoE+ standard (25.5W). It features a UTP RJ45 port and an empty SFP port which is customizable with the use of a swappable SFP for single or multimode applications. This media converter auto-detects 10, 100, 1000mbps, and 10G bandwidths and each unit includes an AC power cord for internal power, and a PSE controller to output power into CAT twisted pair cable to power devices.

Specifications

Standard Protocol	IEEE 802.1q IEEE 802.3z 1000Base-TX/FX standard IEEE 802.3bt Type 3	
Operation Mode	Full/Half duplex mode	
Connectors	UTP	RJ-45
	Fiber	SC/ST/LC
	AC-inlet connector	
RJ-45 Interface	The transmission media adopts CAT5 twisted-pair with maximum length of 100 meter (330 feet).	
Fiber Interface	SC/ST/LC fiber interface is a duplex mode type which includes two sets of optical transceiver: TX and RX.	
Power Supply Interface	The AC power supply is connected to AC input jack of media converter through the attached AC power cable.	
Powered Device Max. Power	60W	
Environmental Parameters	Work Temperature	0°C~50°C (32 °F ~ 122°F)
	Storage Temperature	-40°C~70°C (-40°F ~ 158°F)
	Humidity	5%~90% non-condensing
Cable	UTP Cable	Cat5 UTP cable
	Single-mode	8.3/125, 8.7/125, 9/125, 10/125µm
	Multimode	50/125, 62.5/125µm, 100/140µm
Dimensions (mm)	95mm(L) x 71.5mm(W) x25.4mm(H)	
Warranty	3 years	
Mean Time Between Failure	114,000 hours	
TAA Compliant	Yes	



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Features

- IEEE802.3bt Type 3
- IEEE802.1q
- IEEE802.3z 1000Base-Tx/Fx standard
- PoE PSE compatible
- Supports flow control for full and half duplex operation
- Bandwidth control
- FCC Class A, CE

Category	IEEE802.3bt (Type 3)
Classification	0-4
Max. current	600mA
PSE output voltage	50-57V DC
PSE output power	<=60W
PD input voltage	42.5-57V DC
PD max. power	60W
Cable requirements	CAT-5e or better
Power supply cable (pair)	2

1. POE system components
A complete POE system includes PSE (Power Sourcing Equipment) and PD (Powered Device). The PSE device powers Ethernet client devices and it is the administrator of the entire Power over Ethernet process.
2. There are two international standards for POE: IEEE802.3af and IEEE802.3at. The main parameter difference is as follows:

Category	802.3af (PoE)	802.3at (PoE+)	Exceeds 802.3at (Enhanced+)	IEEE802.3bt (PoE++ Type 3)
Classification	0-3	0-4	0-4	0-4
Max. current	350mA	600mA	600mA	600mA
PSE output voltage	44-57V DC	50-57V DC	50-57V DC	50-57V DC
PSE output power	<=15.5W	<=25.5W	<=30W	<=60W
PD input voltage	36-57V DC	42.5-57V DC	42.5-57V DC	42.5-57V DC
PD max. power	15.5W	25.5W	30W	60W
Cable requirements	Unstructured	CAT-5e or better	CAT-5e or better	CAT-5e or better
Power supply cable (pair)	2	2	2	2

3. If both PSE and PD equipment are standard item, this equipment must comply with the two international standards. If the PD is a non-standard item, the POE (PSE) equipment must be customized.
4. In the early stage of POE development, POE equipment supported IEEE802.3af or IEEE802.3at respectively. Nowadays, IEEE802.3at POE equipment can be backward compatible to IEEE802.3af equipment (but IEEE802.3af can't be upward compatible) via a built-in intelligent chip. POE+ equipment with built-in intelligent chips can identify PD equipment automatically and supply suitable power.
5. When checking the POE equipment (PSE or PD), users must confirm the equipment power requirement (PoE, PoE+, or Enhanced+)

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Part Number Configurator



A	Select Transmission Speed
C	10/100 Mbps
M	10/100/1000 Mbps
B	Select Fiber Type
Y	Single-mode
F	Multimode
X	Empty slot

CC	Select Connector
31	SFP (LC)
61	SC
67	ST
70	SFP (Empty slot)
DD	Select Operating Wavelength
10	1310nm
15	1550nm (Single-mode)
13	1300nm (Multimode)
85	850nm (Multimode)

E	Select Distance
1	10km (Single-mode)
T	25km (Single-mode)
4	40km (Single-mode)
F	50km (Single-mode)
8	80km (Single-mode)
5	550m (Multimode)
2	2km (Multimode)

Note:

- For specific power source, add "EU" for EU power supply or "UK" for UK power supply at the end of the part number.

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