

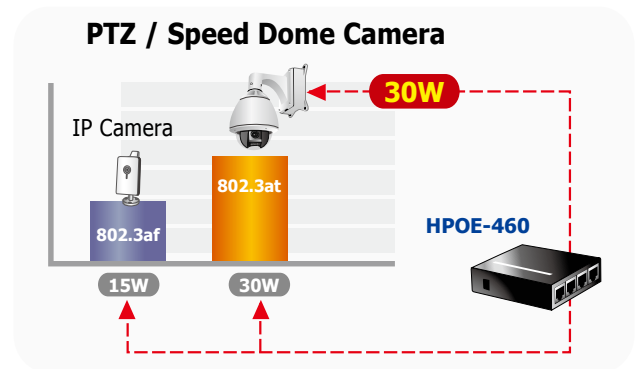
4-Port IEEE 802.3at High Power over Ethernet Injector Hub



High Power PoE for SOHO PoE Applications

The PLANET HPOE-460 is the next generation 4-Port **Gigabit** High Power PoE injector Hub, featuring both **IEEE 802.3af** and **High Power IEEE 802.3at** PoE standard that combines up to **30 Watts** power output and data per port over one CAT 5/5e/6 Ethernet cable. The HPOE-460 is designed specifically to satisfy the growing demand of higher power consuming network PD (powered devices) such as **PTZ (Pan, Tilt & Zoom) / Speed Dome IP cameras**, multi-channel (802.11a/b/g/n) wireless LAN access points and other network devices in SOHO and SMB network applications.

The IEEE 802.3at Power over Ethernet pre-standard is defined to provide each PoE device maximum up to 30 Watts input power which is double amount of PoE power than conventional 802.3af PoE PSE. The IEEE 802.3at PoE pre-standard is an ideal solution to fulfill the high power requirements directly via the RJ-45 Port interface. Compliant with IEEE 802.3at, the HPOE-460 possesses stronger power capability than the existing 802.3af PoE PSE.



Quick and Easy PoE Network Deployment

With 4 **10/100/1000Base-T Gigabit** Ethernet ports, the HPOE-460 supports 52V DC power for any remote 802.3af / 802.3at powered device (PD) without affecting **data** transmission performance. Supports PoE power budget of **120 Watts**, the HPOE-460 provides sufficient 15.4 / 30.8 Watts PoE power up to 4 remote PD devices. It offers a cost-effective and quick solution to upgrade network system to IEEE 802.3af / IEEE 802.3at Power over Ethernet system without replacing the existing Ethernet Switch. There are 8 RJ-45 STP ports on the front panel of the HPOE-460, in which 4 ports in the right direction function as "Data input" and the other half in left direction function as "**PoE (Data and Power) output**". The 4 "**PoE (Data and Power) output**" ports are also the power injectors that transmit DC voltage to the CAT. 5/5e/6 cable and transfer data and power simultaneously between the Injectors and Splitters.

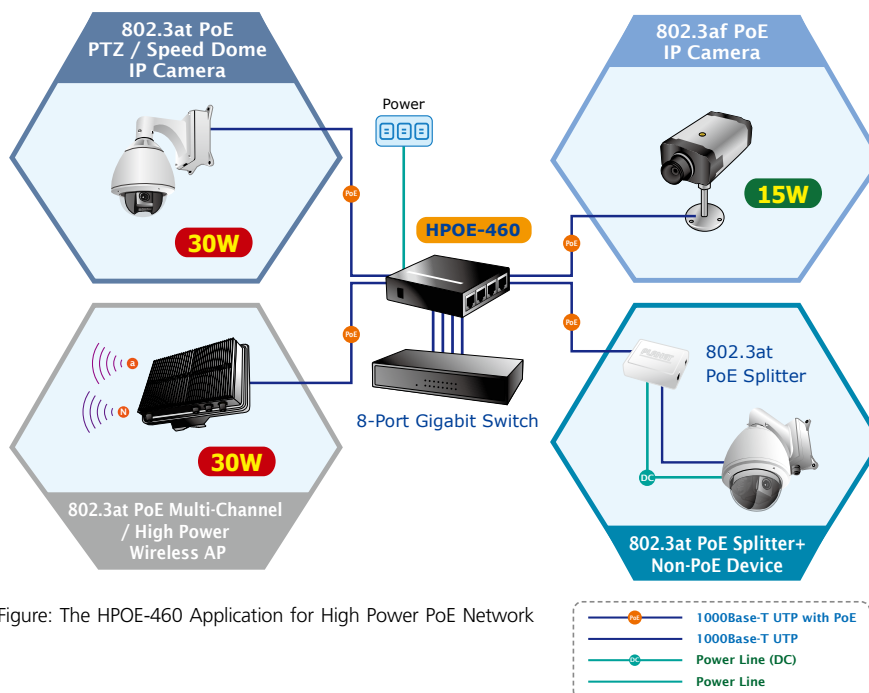


Figure: The HPOE-460 Application for High Power PoE Network

KEY FEATURES

- 8-Port RJ-45
 - 4-Port 10/100/1000Mbps “Data input”
 - 4-Port 10/100/1000Mbps “Data + Power output”

POWER OVER ETHERNET

- IEEE 802.3at and IEEE 802.3af Power over Ethernet Mid-Span PSE
- Provides DC 52V power over RJ-45 Ethernet cable to IEEE 802.3at / 802.3af compliant devices (up to 4 PD devices)
- PoE power up to 30.8 Watts (802.3at PoE) / 15.4 Watts (802.3af PoE) for each PoE port
- Remote power feeding up to 100m
- Full power support for each PoE port
- Automatically detect the powered device (PD)
- Circuit protection prevents power interference between ports
- 100~240V AC, 50/60Hz, 2A universal power supply adapter with DC 52V / 2.31A power output

HARDWARE

- Desktop palm size, wall mountable
- LED indicator power input indication
- FCC Part 15 Class B, CE
- Plug & play

STANDARD COMPLIANCE

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3at pre-standard Power over Ethernet
- IEEE 802.3af Power over Ethernet

APPLICATIONS

SOHO Gigabit PoE Network Deployment

The HPOE-460 provides the easiest way to power your Ethernet devices such as PTZ / Speed Dome IP Camera on the ceiling, the Wireless Access Point installed on the roof of the building and the PoE IP Phones in the office. With 4 10/100/1000Base-T Gigabit Ethernet ports, the HPOE-460 supports full 52V DC power for any remote IEEE 802.3af / 802.3at powered device (PD). Furthermore, the HPOE-460 can be directly connected to any third party IEEE 802.3af / 802.3at compliant devices installed 100 meters away and allow the administrator to centrally control the power system of the networking devices.



SPECIFICATION

Product	4-Port IEEE 802.3at High Power over Ethernet Injector Hub	
Model	HPOE-460	
Hardware		
Interface	"Data" Input Ports	4 x RJ-45
	"Data+Power" Output Ports	4 x RJ-45
Data Rate	10/100/1000Mbps	
LED	System: Power x 1 (Green)	
	Per PoE Port: PoE ready / in-use x 4 (Green)	
Network Cable	10Base-T: 4-Pair UTP Cat. 5 up to 100m (328ft)	
	100Base-TX: 4-Pair UTP Cat. 5 up to 100m (328ft)	
	1000Base-T: 4-Pair UTP Cat. 5e, 6, up to 100m (328ft)	
	EIA/TIA- 568 100-ohm STP (100m, 328ft)	
Dimension (W x D x H)	26 x 70 x 97 mm	
Weight	220g	
Power Requirement	DC 52V~56V	
Power over Ethernet		
PoE Power Supply Type	Mid-Span	
PoE Power Output	Per Port DC 52V 30.8 Watts / 15.4 Watts	
Power Pin Assignment	4/5(+), 7/8(-)	
PoE Power Budget	120 Watts	
Number of 802.3af PD Class 0, 1, 2, 3 can be powered	4	
Number of 802.3at PD Class 1, 2, 3 can be powered	4	
Number of 802.3at PD Class 0, 4 can be powered	4	
Standards Conformance		
Standards Compliance	IEEE 802.3 10Base-T Ethernet	
	IEEE 802.3u 100Base-TX Fast Ethernet	
	IEEE 802.3ab 1000Base-T Gigabit Ethernet	
	IEEE 802.3at Power over Ethernet (Pre-standard)	
	IEEE 802.3af Power over Ethernet	
Regulation Compliance	FCC Part 15 Class B, CE	
Environment		
Operating Temperature	0 ~ 50 Degree C	
Storage Temperature	-10 ~ 70 Degree C	
Humidity	5 ~ 95% (Non-condensing)	

ORDERING INFORMATION

<i>HPOE-460</i>	4-Port IEEE 802.3at High Power over Ethernet Injector Hub
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RELATIVE PRODUCTS

<i>HPOE-1200G</i>	12-Port Gigabit IEEE 802.3at Power over Ethernet Injector Hub (340W)
<i>HPOE-2400G</i>	24-Port Gigabit IEEE 802.3at Power over Ethernet Injector Hub (460W)

RELATIVE PoE PRODUCTS

ICA-H312	H.264 25-meter IR Internet Camera
ICA-H610	H.264 Indoor CCD Internet Camera
ICA-HM100	Wired H.264 Mega-Pixel IP Camera
ICA-HM120	H.264 Mega-Pixel Box IP Camera
ICA-HM125	2 Mega-Pixel H.264 Box IP Camera
ICA-HM126	H.264 Full HD Box IP Camera
ICA-HM131	H.264 Full-HD Fixed Dome IP Camera
ICA-HM135	H.264 Mega-Pixel 20M IR Vandal Proof Dome IP Camera
ICA-HM240	H.264 Mega-Pixel Vandal Proof Pan/Tilt IP Camera
POE-151S	IEEE 802.3af Power Over Ethernet Splitter (5V/12V DC output)
POE-152S	IEEE 802.3af Power over Ethernet Splitter (5V/12V DC output)
POE-161S	IEEE 802.3at Gigabit High Power over Ethernet Splitter (5V/12V DC output)
POE-E101	IEEE 802.3af Power over Ethernet Extender
VIP-156PE	802.3af PoE SIP Analog Telephone Adapter
VIP-254PT	SIP PoE IP Phone
VIP-255PT	Multi-Language PoE IP Phone
VIP-360PT	Enterprise PoE IP Phone
VIP-560PE / VIP-56EXT	Professional PoE IP Phone with Expansion Function
VIP-560PT	Professional PoE IP Phone
WNAP-C3220	300Mbps 802.11n Wireless Ceiling Mount Range Extender
WNAP-1120PE	802.11n Wireless Access Point with PoE
WNAP-3000PE	802.11n Enterprise PoE Access Point