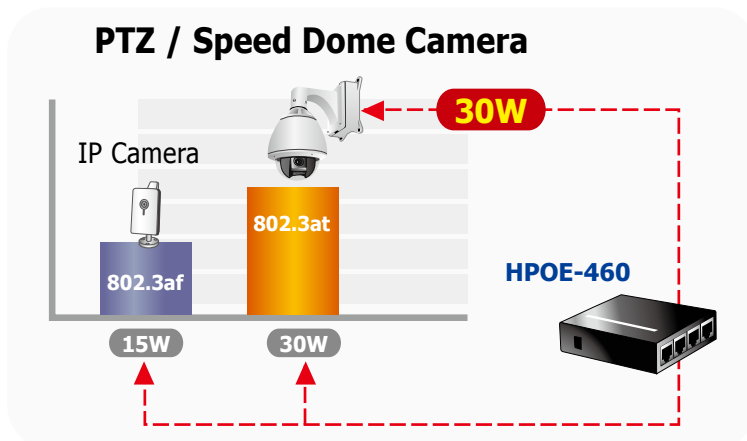# 4-Port IEEE 802.3at High Power over Ethernet Injector Hub

High Power PoE for SOHO PoE Applications

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 standards that combine up to **30-watt** power output and data per port over one CAT 5/5e/6 Ethernet cable. The HPOE-460 is designed specifically to meet the growing demand for higher power consuming network PDs (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 Standard is defined to provide each PoE device with maximum up to 30-watt input power which is twice as much as that of the conventional 802.3af PoE PSE. The IEEE 802.3at PoE Standard is an ideal solution to fulfilling the high power requirements directly via the RJ-45 interface. Compliant with IEEE 802.3at, the HPOE-460 possesses stronger power capability than the existing 802.3af PoE PSE.

PTZ / Speed Dome Camera

IP Camera

30W

802.3at

802.3af

15W   30W

HPOE-460

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

Power over Ethernet
- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab 10/100/1000Base-T Ethernet standard
- 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 detects 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
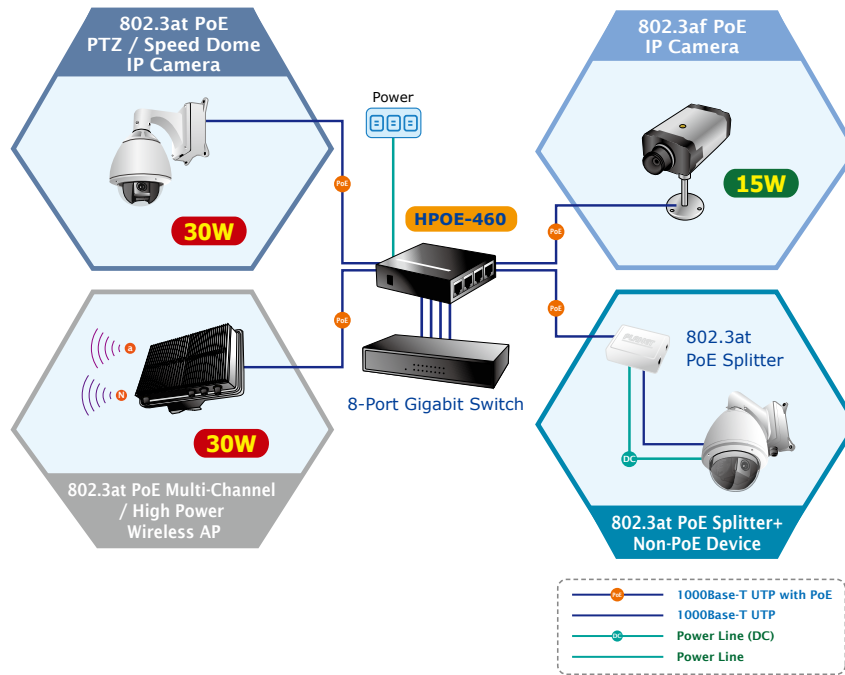
Hardware
- Desktop palm size, wall mountable
- LED indicator power input indication
- FCC Part 15 Class B, CE
- Plug & play

Standard Compliance
- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3at Enhancement Power over Ethernet
- IEEE 802.3af Power over Ethernet

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. Supporting PoE power budget of **120 watts**, the HPOE-460 provides sufficient 15.4 / 30.8-watt PoE power up to 4 remote PD devices. It offers a cost-effective and quick solution to upgrading 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 the 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.

802.3at PoE PTZ / Speed Dome IP Camera — 30W
802.3af PoE IP Camera — 15W
802.3at PoE Multi-Channel / High Power Wireless AP — 30W
HPOE-460
8-Port Gigabit Switch
Power
802.3at PoE Splitter
802.3at PoE Splitter+ Non-PoE Device

1000Base-T UTP with PoE
1000Base-T UTP
Power Line (DC)
Power Line

Applications
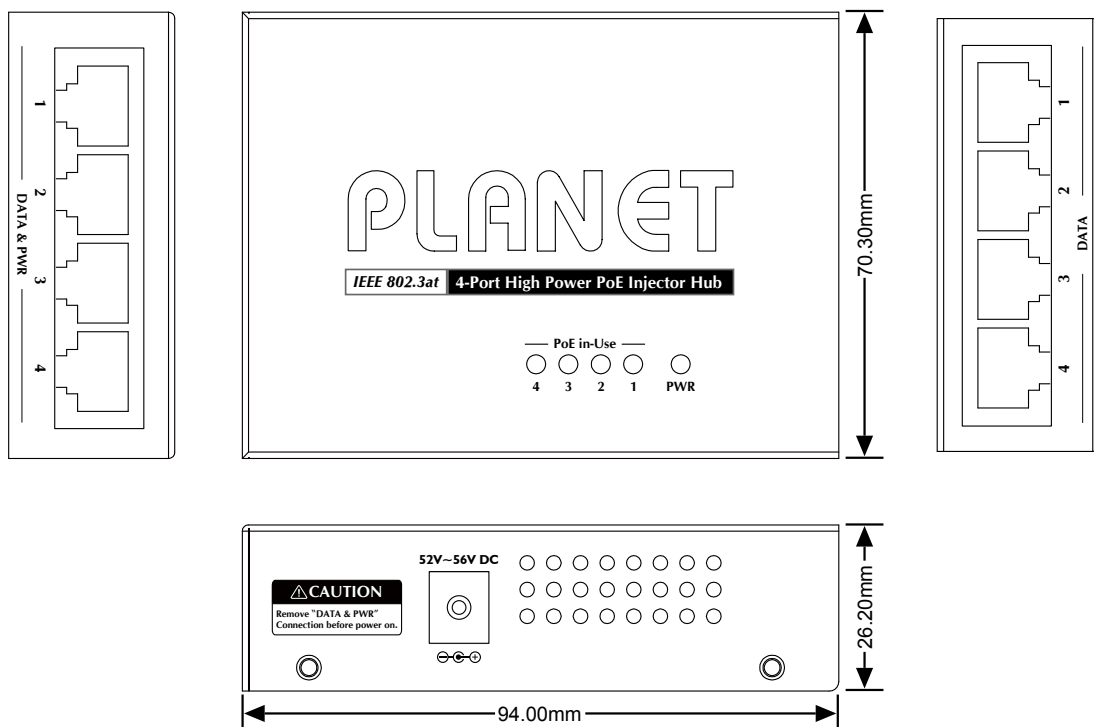
SOHO Gigabit PoE Network Deployment

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.

Office Building — Speed Dome — IEEE 802.3at PoE Splitter
Office Area — IEEE 802.3af PoE VoIP Phone
HPOE-460
8-Port Gigabit Switch
Control Room
Office Building — IEEE 802.3af PoE IP Camera — PoE Extender
Warehouse — IEEE 802.3af PoE IP Camera

Power Line (DC)
100Base-TX UTP
1000Base-T UTP with PoE
1000Base-T UTP

Specifications

Model	HPOE-460
Hardware Specifications	
Interface — "Data" Input Ports	4 x RJ-45
Interface — "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)
Dimensions (W x D x H)	26 x 70 x 97 mm
Weight	220g
Power Requirement	DC 52V~56V
Power over Ethernets	
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 Enhancement Power over Ethernet IEEE 802.3af Power over Ethernet
Regulation Compliance	FCC Part 15 Class B, CE
Environment	
Operating Temperature	0 ~ 50 degrees C
Storage Temperature	-10 ~ 70 degrees C
Humidity	5 ~ 95% (non-condensing)

Diagram

Ordering Information

HPOE-460	4-Port IEEE 802.3at High Power over Ethernet Injector Hub

Related Products

HPOE-1200G	12-Port Gigabit IEEE 802.3at Power over Ethernet Injector Hub (360W)
HPOE-2400G	24-Port Gigabit IEEE 802.3at Power over Ethernet Injector Hub (720W)

Related PoE Products

ICA-2200	Full HD PoE Box IP Camera
ICA-2500	5 Mega-pixel PoE Box IP Camera
ICA-3250V	Full HD Outdoor IR PoE IP Camera
ICA-3350V	3 Mega-pixel Vari-focal Bullet IR IP Camera
ICA-4200V	Full HD 20M IR Vari-focal Dome IP Camera
ICA-5350V	3 Mega-pixel Vandalproof IR IP Camera
ICA-8350	3 Mega-pixel Vandalproof Fisheye IP Camera
ICA-HM101	2 Mega-pixel PoE Cube IP Camera
ICA-HM126	H.264 Full HD Box IP Camera
ICA-HM127	3 Mega-pixel H.264 Box IP Camera
ICA-HM132	H.264 2 Mega-pixel 20M IR Vari-focal Dome IP Camera
ICA-HM136	H.264 2 Mega-pixel 20M IR Vandalproof Dome IP Camera
ICA-HM312	2 Mega-pixel 25M IR Outdoor Bullet PoE IP Camera
ICA-HM316	2 Mega-pixel Outdoor IR PoE IP Camera
ICA-HM351	2 Mega-pixel 35M IR Outdoor Box PoE IP Camera
ICA-HM835	2 Mega-pixel Vandalproof Fish-Eye IP Camera
ICA-HM620	2 Mega-pixel PoE Plus Speed Dome Internet Camera
POE-152S	IEEE 802.3af Power over Ethernet Splitter
POE-162S	IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-E101	IEEE 802.3af Power over Ethernet Extender
POE-E201	IEEE 802.3at Power over Ethernet Extender
WNAP-C3220	802.11n Wireless Ceiling Mount PoE Access Point
WDAP-C7400	900Mbps Dual Band Ceiling Mount Wireless Access Point
WNAP-7350	5GHz 300Mbps 802.11a/n Wireless Outdoor Access Point
WNAP-6350	2.4GHz 300Mbps 802.11n Wireless Outdoor Access Point
WNAP-1120PE	802.11n Wireless Access Point with PoE
ICF-1700	Touch Screen Internet Multimedia Phone
VIP-255PT	Multi–Language PoE IP Phone
VIP-256PT	802.3af PoE SIP IP Phone
VIP-360PT	Business PoE IP Phone
VIP-361PE	Professional PoE IP Phone (5-Line)
VIP-560PT	Professional PoE IP Phone

FC CE

HPOE-460