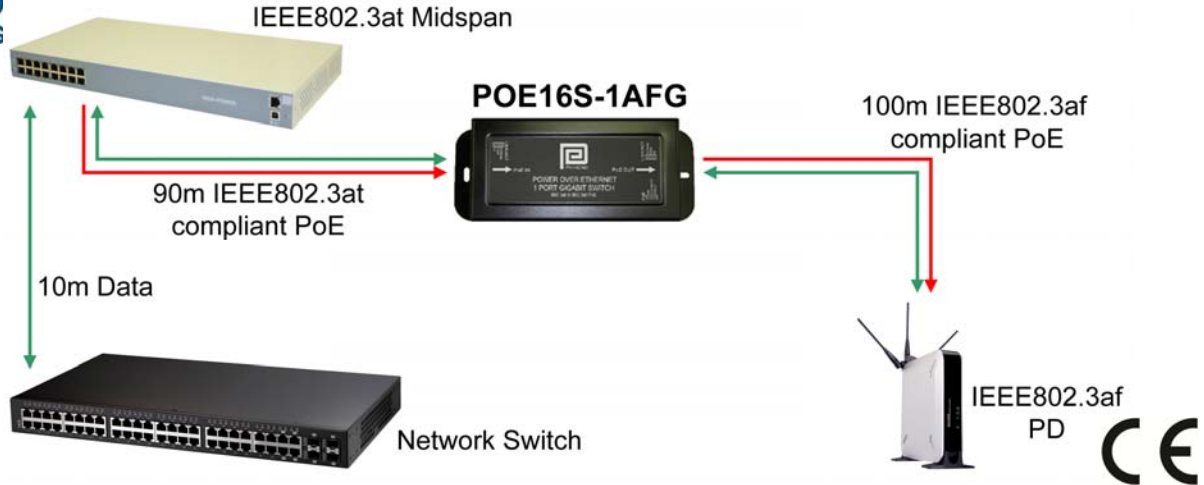# Single Port PoE Gigabit Switch Powered by IEEE802.3at
Extends Ethernet Data and PoE to 200 Meters

Features

- IEEE802.3af Class 4
- 0-55C Operating Temperature Range
- Gigabit Compatible
- Extends Ethernet to 200 meters
- Powered by IEEE802.3at with Layer 1
- Detects 25K signature resistance
- Boost Circuit to Compensate for Wire Drops
- 1 Year Warranty

Applications

- IP Cameras
- Access Controls
- Wireless Access Points

Safety Approvals

- CE

Mechanical Characteristics

- Length: 120mm (4.72in)
- Width: 60mm (2.36in)
- Height: 32mm (1.26in)
- Weight: 0.6Kg (1.3lb)

Output Specifications

Model	DC Output Voltage			Output Current		Output Power
	Min.	Typ.	Max.	Min.	Max.	
POE16S-1AFG	54V	56V	57V	10mA	330mA	19W

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information.

INPUT:
Input Source
Receives power from IEEE802.3at Midspan

Input Detection
25K Detection IEEE802.3at compliance

DC Input Voltage Range
45VDC to 57VDC

DC Input Current
1.0A at 45VDC and maximum load
2.0A at 50VDC and maximum load
0.8A at 57VDC and maximum load

OUTPUT:
Total Output Power
19W with 33.6W PoE Input

Ripple and Noise (Vp-p)
250mV maximum

Output Detection
25K Detection IEEE802.3af compliance

Efficiency
75% minimum at maximum load

ENVIRONMENTAL
Operating Temperature   0 to 40°C
     (gigabit data rates)
Operating Temperature   0 to 55°C
     (10Mb and 100Mb data rates)
Storage Temperature   -25 to +65°C
Humidity   5 to 90%

EMI
EN55022 Class A, FCC part 15 Class A

Warranty
1 Year

Immunity
ESD   EN61000-4-2   Level 3
RS   EN61000-4-3   Level 3
Surge   EN61000-4-5   Level 2

Isolation (HI-POT)
2121VDC for 1 min, 10mA

Insulation Resistance
Input to Ground: >10M OHM 500VDC
Output to Ground: >10M OHM 500VDC

FEATURES
Over Current Protection
For PoE Class 0-3 Detection on Output: 450mA maximum
For PoE Class 4 Detection on Output:650mA maximum

Short Circuit Protection
Outputs equipped with short circuit protection
The output can be shorted permanently without damage

Indicators

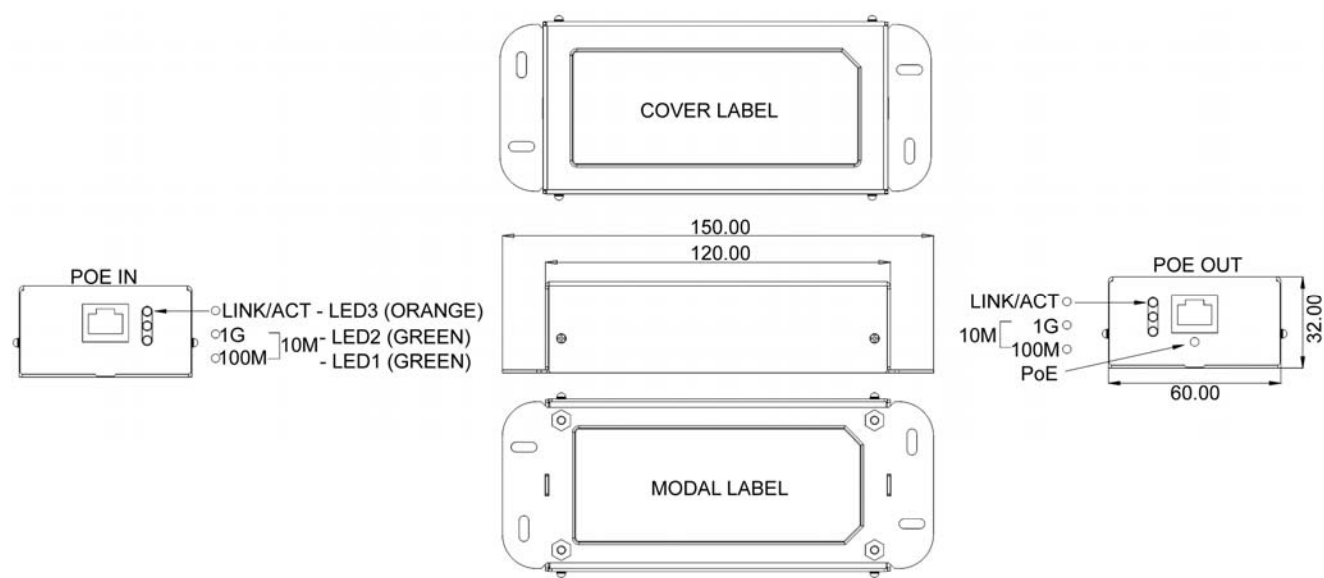|	
Ethernet – IN/OUT	**Green LED1 and LED2** - 10Mb Activity **Green LED1** – 100Mb Activity **Green LED2** – 1Gb Activity **Orange LED3** – Link Activity
POE	**Blinking GREEN** – Unit is ON Active with No Load **Solid GREEN** – Unit has detected a valid IEEE802.3af load **Blinking RED/GREEN** – unit has detected an invalid load **Solid RED** – unit is in over-load condition

Input/Output Connectors
RJ45

Input Connection
Pins: 1,2 7,8 GND / Pins: 3,6 4,5 +VIN

Output Connection
Pins: 1,2 GND / Pins: 3,6 +VIN

COVER LABEL

150.00

120.00

MODAL LABEL

POE IN

LINK/ACT - LED3 (ORANGE)
1G
100M — 10M — LED2 (GREEN)
— LED1 (GREEN)

POE OUT

LINK/ACT
10M — 1G
100M
PoE

32.00

60.00

Mouser Electronics

Authorized Distributor

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