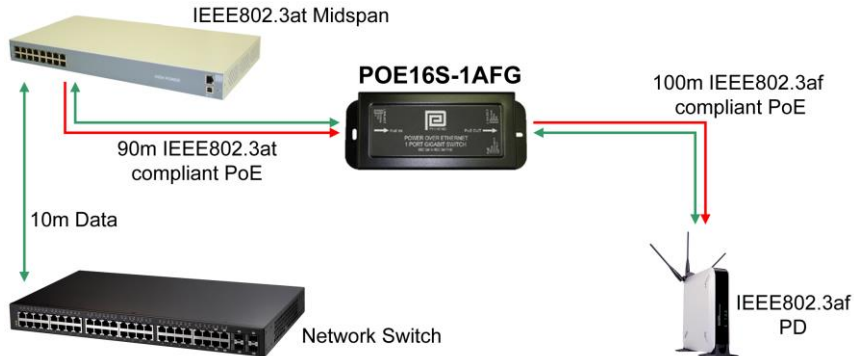# IEEE802.3at Single Port PoE Gigabit Switch Extends Ethernet Data and PoE to 200 Meters

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

Reference files: POE16S-1AFG User Manual

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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 max load
2.0A at 50VDC and max load
0.8A at 57VDC and max load

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

Ripple and Noise (Vp-p)
250mV max

Output Detection
25K Detection IEEE802.3af compliance

Efficiency
75% min at max 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
Complies with FCC Class B
Complies with EN55032 Class B

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 –Green LED1 and LED2 - 10Mb
IN/OUT   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: 7,8 GND / Pins: 4,5 +VIN

COVER LABEL

150.00

120.00

POE IN

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

POE OUT

32.00

LINK/ACT○
10M⌐ 1G ○
100M○
PoE

60.00

MODAL LABEL