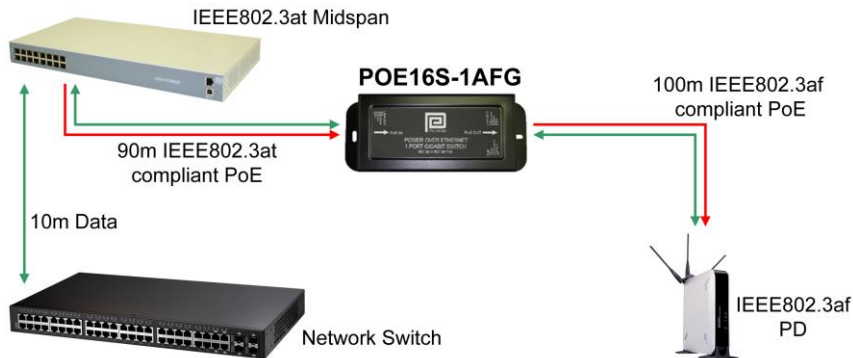




IEEE802.3at Single Port PoE Gigabit Switch Extends Ethernet Data and PoE to 200 Meters



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

EN55022 Class A, FCC part 15 Class A

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

