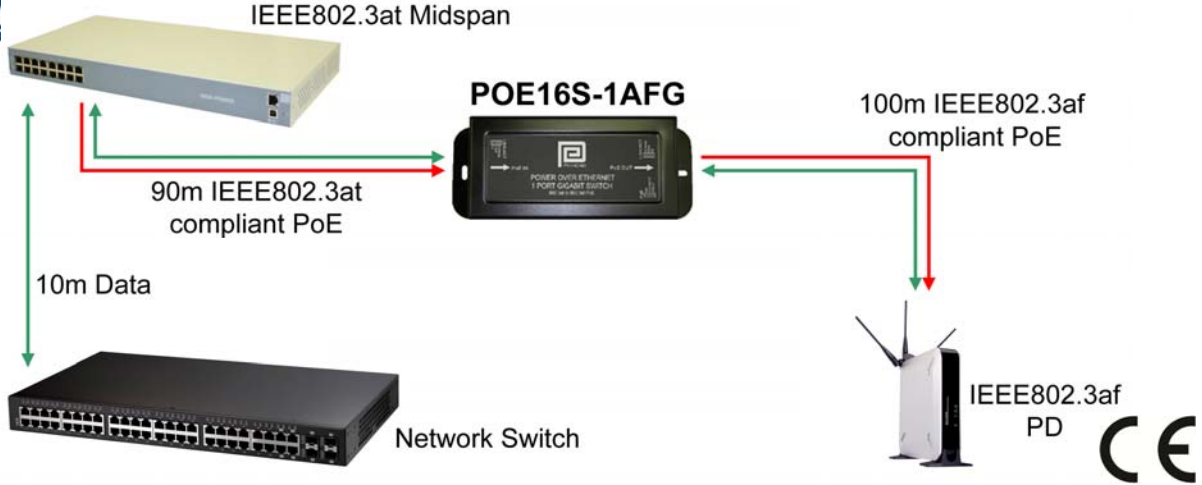




**Single Port PoE Gigabit Switch Powered by IEEE802.3at  
Extends Ethernet Data and PoE to 200 Meters**



**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

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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 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

