AV COSTAR™

Wide Temperature 75W PoE 802.3bt Supply

PoE++ bt Class 5 injector, 75 watts, 100-240vac input, TS2 rated US AC cord

The 7412007-006 is a single port PoE Injector with a wide temperature range and surge suppression for complex high-power requirements. It provides 55VDC, 1.36A power to remote devices over 4 pairs with 6kV (10/700µs) surge protection and supports 10/100/1000Mbps data speed. Compatible with IEEE 802.3af/at/bt compliant 75W PoE devices, such as high-power cameras, wireless access points, base stations, door locks, displays, POS, information kiosks, and other high-power Ethernet terminals.

The 7412007-006, is designed for indoor use and can be used outdoors when placed inside a waterproof box. It operates with power inputs of 100-240VAC and at temperatures between -29.2 to 165.2ºF (-34 to 74ºC) at full load. The 7412007-006 has a high-reliability detection chip inside, which detects and classifies PoE devices before powering them and will not provide power until a compliant device is detected. The 7412007-006 has a maximum power distance of 328ft (100m) over Cat5e/Cat6 cables.

Rugged Construction

- 75 watt, 55 VDC PoE 802.3bt power delivery
- High-Temperature operation up to 74°C
- Wide 100-240VAC input range
- Up to 90% humidity

Interoperability

- Supports IEEE802.3af/at/bt
- 10/100/1000BaseT ethernet
- RoHS compliant
- MTBF 100,000's @ 25°C
- Compact design, high power low cost
- Convenient mounting tabs for quick installation

Ordering Information

7412007-006	High Temperature 75W PoE 802.3bt Supply

Wide Temperature 75W PoE 802.3bt Supply
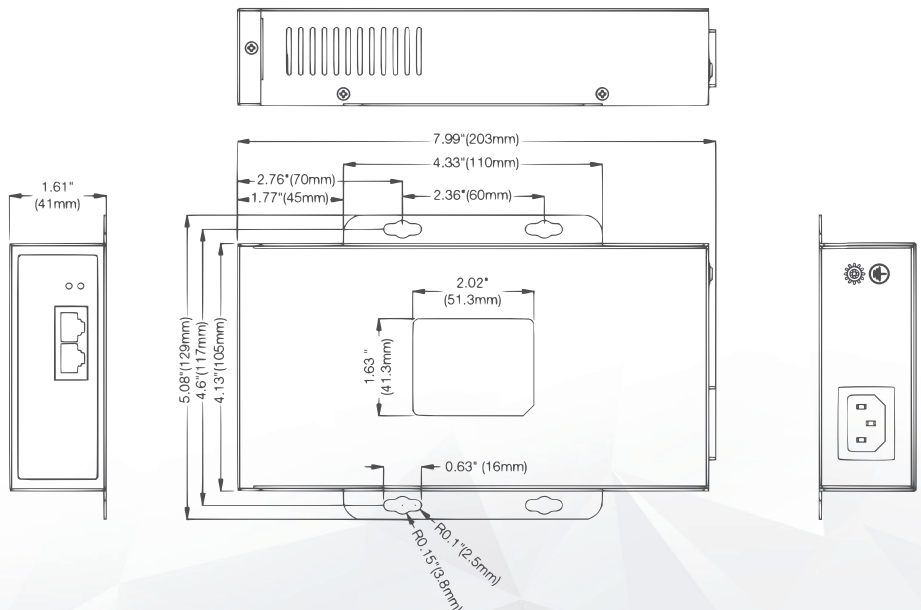
Standards

IEEE802.3 10Base-T Ethernet	
IEEE802.3u 100Base-Tx Fast Ethernet	
IEEE802.3ab 1000Base-T Gigabit Ethernet	
Full compliant with IEEE802.3 AF/AT/BT	
RoHS compliant	
WEEE compliant	

EMS

IEC61000-4-2(ESD) ± 6kV(contact), ±8kV(air)
IEC61000-4-3(RS) 10V/m(80MHz~2GHz)
IEC61000-4-4(EFT) Power Port: ±2kV; Data Port:±1 kV
IEC61000-4-5(Surge) Power Port:±1 kV/OM, ±2kV/CM
IEC61000-4-6(CS) 10V(150kHz~80MHz)

Immunity

IEC60068-2-6(Vibration)
IEC60068-2-27(1mpact)
IEC60068-2-32(Free Fall)

Input & Output

Input	100-240Vac 1.5 A 50/60Hz
Output	55Vdc 1360mA
Power Pins	4/5(+), 7/8(-) and 3/6(+),1/2(-)
Data Speed	10/100/1 000Mbps

Environmental

Operating Temp	Nema TS2 temperature (-34 to 74 t)
Operating Humidity	20% to 80%, non-condensation
Storage Temperature	-40 t to 85 t
Storage Humidity	10% to 90%, non-condensation
Operating Altitude	Up to 5000meters

AC Surge Protection

Line-Earth 1.2/50us (8/20us)	2KV
Line-Line 1.2/50us (8/20us)	1KV

PoE Surge Protection

Protected line	1,2,3,4,5,6,7,8
Common mode surge protection (10/700us)	6KV
Differential mode surge protection (10/700us)	1.5KV

Mechanical

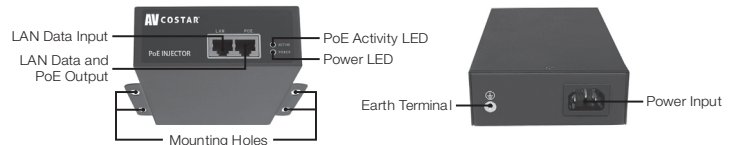|	
Case/Color	Metal / Black
Mounting	Wall-mounted
IP Rated	IP20
Size	8.03" x 5.12" x 1.85" (204mm x 130mm x 41mm)
Weight	1.6 lbs. (760g)

Packaging

7412007-006 X 1
USA Power Cord x 1
Operation Manual x 1

Power Delivery VS Temperature Profile
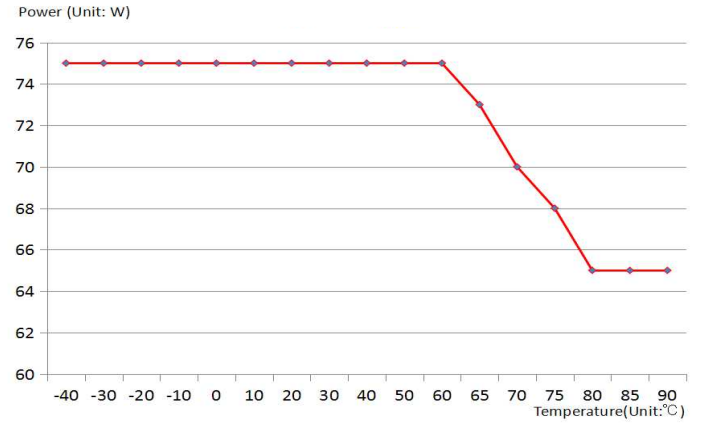
Product Features

Installation Network Diagram

7412007-006 PoE Injector

External Power
100-240VAC

Switch

High-Power PoE Device

1. **100-240VAC Power**
2. **Data Over CAT5E / CAT6**
3. **Data and Power Over CAT5E / CAT6**