I infinique™

PD100 Series 2 Ports Industrial PoE Extender

Unmanaged Plug and Play Ethernet PoE Extender Up to 200 Meters

Infinique's INPD100M is an Industrial Ethernet PoE Extender that powers devices such as an IP Camera which are installed at distances which are greater than the Ethernet cabling standard of 100 meters. It has 2x RJ45 PoE output ports to provide Data and Power to connected devices while the 1x RJ45 port provides connectivity between the PoE Extender and the Mid-Span.
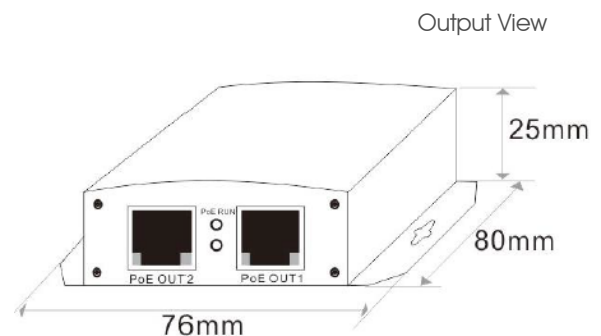
This Ethernet PoE Extender is suitable for applications such as outdoor, transportation, shipping, mining, energy, video surveillance, smart buildings, and any installation where IP devices are installed at distances of more than 100 meters.

Features and Benefits

- **Plug and Play Connectivity**
  Unmanaged Plug and Play Switch with 3x RJ45 Ethernet 10/100Base-T Ports, 2x RJ45 Output Ports for Data and Power, 1x RJ45 Port for Input. No Additional Power Supply Required.
- **Excellent Performance**
  Switching capacity of 1.6 Gbps and forwarding speed of 0.45Mbps @64 bytes
- **Robust Design**
  Robust Aluminum Alloy Metal Enclosure, Fan-less Design, Excellent Heat Dissipation and provides Stable Operation
- **Port Lightning Protection and Wide Voltage Input**
  Port lightning protection common-mode 4KV, Differential mode 2KV, Industrial Dual Power Input, DC Input 12~57V
- **Standards**
  Complies with IEEE 802.3af, 802.3at, 802.3u, 802.3x, 802.3ab, 802.1X, 802.1Q, 802.1P Standards

CONSTRUCTION

INPD100-M
Metal Enclosure

Input View

Output View

25mm

80mm

76mm

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TECHNICAL SPECIFICATIONS	
Ethernet RJ45 Ports	2x 10/100 Base PoE Output Ports (Data/Power) auto-sensing, full/half duplex MDI/MDI-X self-adaption 1x 10/100 Base-T(X) Uplink PD Input Port (Data/Power)
Network Protocols	IEEE 802.3,10BASE-T Ethernet, IEEE802.3i 10Base-T IEEE 802.3u, 100BASE-T Fast Ethernet Standard IEEE 802.3x, Full-Duplex Ethernet Data Link Layer Flow Control
Features	Half/Full-Duplex Operation at 10/100Mbps Auto-Negotiation for each port Auto MDI/MDIX
LED Indicator Status	Power: Green, Per Port Link/Act: Yellow, SFP: L/A Green

SWITCH PERFORMANCE	
Switching Bandwidth	1.6 Gbps
Forwarding Rate	0.45 Mpps @64byte
Network Delay	< 20 msec
Buffer Memory	512K
Jumbo Frame	1.5K
MAC Addresses Table Size	1K
MTBF	306,600 hours or 35 Years

POWER MANAGEMENT	
PoE Power Budget	15.4W Per Port, IEEE802.3af/at , Restricted by max input power of PSE
Power Supply Pin	Default: 1/2 (+), 3/6 (-), Optional 4/5(+), 7/8(-)
Power Consumption	Standby< 2W, Full load < 30W
Power Supply	Powered Device, RJ45 PoE port, No additional power supply required

ENVIRONMENT	
Operating Temperature	-20°C to 75°C
Operating Relative Humidity	5% - 90%, non-condensing
Storage Temperature	-20°C to 85°C
Storage Relative Humidity	5% - 90%, non-condensing
Working, Storage Altitude	up to 10,000 ft / 3000 m

PHYSICAL CHARACTERISTICS	
Dimensions	76 (w) x 80 (d) x 25 (h) mm
Weight	1.0kg Net / 1.2kg Gross
Enclosure	IP40 Aluminum Alloy, Desktop or 35mm DIN Rail mountable

STANDARDS COMPLIANCE	
Lightning protection / Protection level	Lightning Protection: 4KV 8/20us, Protection level: IP30
Mechanical Properties	IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)
Certification	CCC; CE Mark, Commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS

ORDERING INFORMATION	
PART NUMBER	**DESCRIPTION**
INPD100M-2RP	Infinique INPD100 Series 3 Ports Industrial PoE Extender, Distance 200 meters, 2x 10/100 PoE Output Ports, 1x 10/100 Uplink Input Port, Switching Capacity 1.6 Gbps, PoE Port Power Budget 30W, Max 15.4W Per Port, Plug and Play Configuration, Aluminum Alloy Metal Enclosure, Desktop or Wall Mountable