

ET1100Wp Series

Industrial 10/100Base-TX(PoE+) Ethernet Over Shielded Twisted Pair Extenders with PoW

Ethernet Extension

EoC with Power (PLC)

EtherXtra™



Features

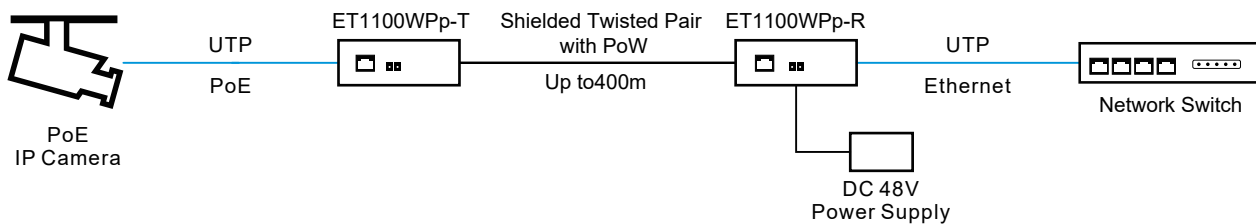
- ▶ PoE+ and Power over Shielded Twisted Pair
- ▶ 802.3af/802.3at Compliant
- ▶ Data Rate up to: 90Mbps (Downlink), 90Mbps (Uplink)
- ▶ Max. Distance : 400m over Shielded Twisted Pair
- ▶ Accept 48~57VDC external power input or PoE power input from RJ45 port



Warranty

- ▶ 5-Year Warranty

Typical Application



Specifications

Ethernet	
Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3af Power over Ethernet IEEE802.3at Power over Ethernet
Cabling	Cat5 or above
Maximum Distance	100m
Connector	1 x RJ45
Shielded Twisted Pair	
Cabling	Shielded Twisted Pair
Connector	2-pin terminal block
Distance	Up to 400m@26AWG
Data Rate	
Downlink	90Mbps (Max.)
Uplink	90Mbps (Max.)
Technology	Power Line Communication (PLC)
Electrical and Mechanical	
Input Power	48-57VDC (Terminal Block) or IEEE 802.3at PD (for ET1100Wp-R only)
Power Consumption	8W Max. (PoW not in use) 60W Max. (PoW in use)

Specifications

Protection	
Reverse Polarity	Present
LED Indicators	
Power	Power Status
Ethernet	SPD, LINK/ACT, PoE(Transmitter)
Shielded Twisted Pair	LINK(Transmitter) / Ready(Receiver) / PoW(Receiver), Activity
PoE	
Standard	IEEE802.3af/at
Mode	B
Port	RJ45
Max. Power Per Port	25.5W max.at RX(Powered Device) 30W Max.at TX(Power Sourcing Equipment)
Dimensions (W x D x H)	114 × 82 × 31 mm
Weight	0.25 Kg
Casing	Aluminum case
Mounting	Wall Mount

Environmental

Operation Temperature	-10°C to 60°C (14°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 90% non-condensing
MTBF	> 100,000 hrs

Regulatory Approvals

ISO9001
 FCC Part 15 Class A
 EN55022 Class A
 Surge Protection
 RJ45: 1KV
 BNC: 2KV
 Power: 500V

Ordering Information

Available Model	Description
ET1100WPP-T	Transmitter of 10/100Base-TX(PoE+) Ethernet Over Shielded Twisted Pair with PoW
ET1100WPP-R	Receiver of 10/100Base-TX(PoE+) Ethernet Over Shielded Twisted Pair with PoW

Optional Accessories (to be purchased separately)

Power Supply Please refer to the power supply information at the back of the catalogue, our website www.ot-systems.com, or consult OTS sales at sales@ot-systems.com for your power system design properly.

Package Checklist

- Transmitter / Receiver of Ethernet Over Shielded Twisted Pair Extender with PoW x 1
- Hardware installation guide(printed) or QIG x 1



ET1100Wpp series
Power vs Distance chart

Power vs. Distance Chart

Test condition :

Telephone cable : MUST use twisted pair and 26AWG

Ethernet cable : Cat5e or Cat6

Twisted pair 26AWG Telephone Cable @ 27°C				
Telephone Cable Distance	Maximum Data Rate	PoL Output Power (Watts)	Telephone Cable Environment	Power Supply
100M	100Mbps	16W	Dispersed cable	48VDC / 4.6A
200M	100Mbps	7W	Dispersed cable	48VDC / 4.6A
300M	98Mbps	3.5W	Dispersed cable	48VDC / 4.6A
400M	30Mbps	2W	Dispersed cable	48VDC / 4.6A