

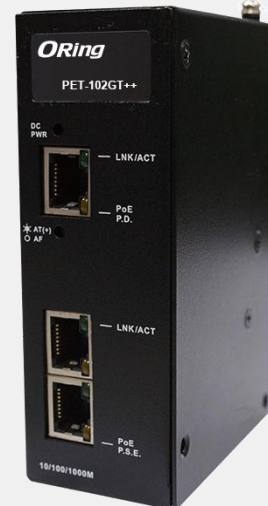


PET-102GT++

Industrial 2-port Gigabit High Power PoE++ Extender

Features

- Support 1 port PoE P.D. input to 2 port POE P.S.E output with 10/100/1000 Base-T(X) for power and data extender
- Support P.S.E. based on IEEE 802.3af/at standard
- PoE P.D. input support 90watts max.
- PoE P.S.E. output support 90watts max. per port
- Multiple unit , daisy-chain installation support
- High reliability and rigid IP-30 housing
- DIN-Rail and wall mount design



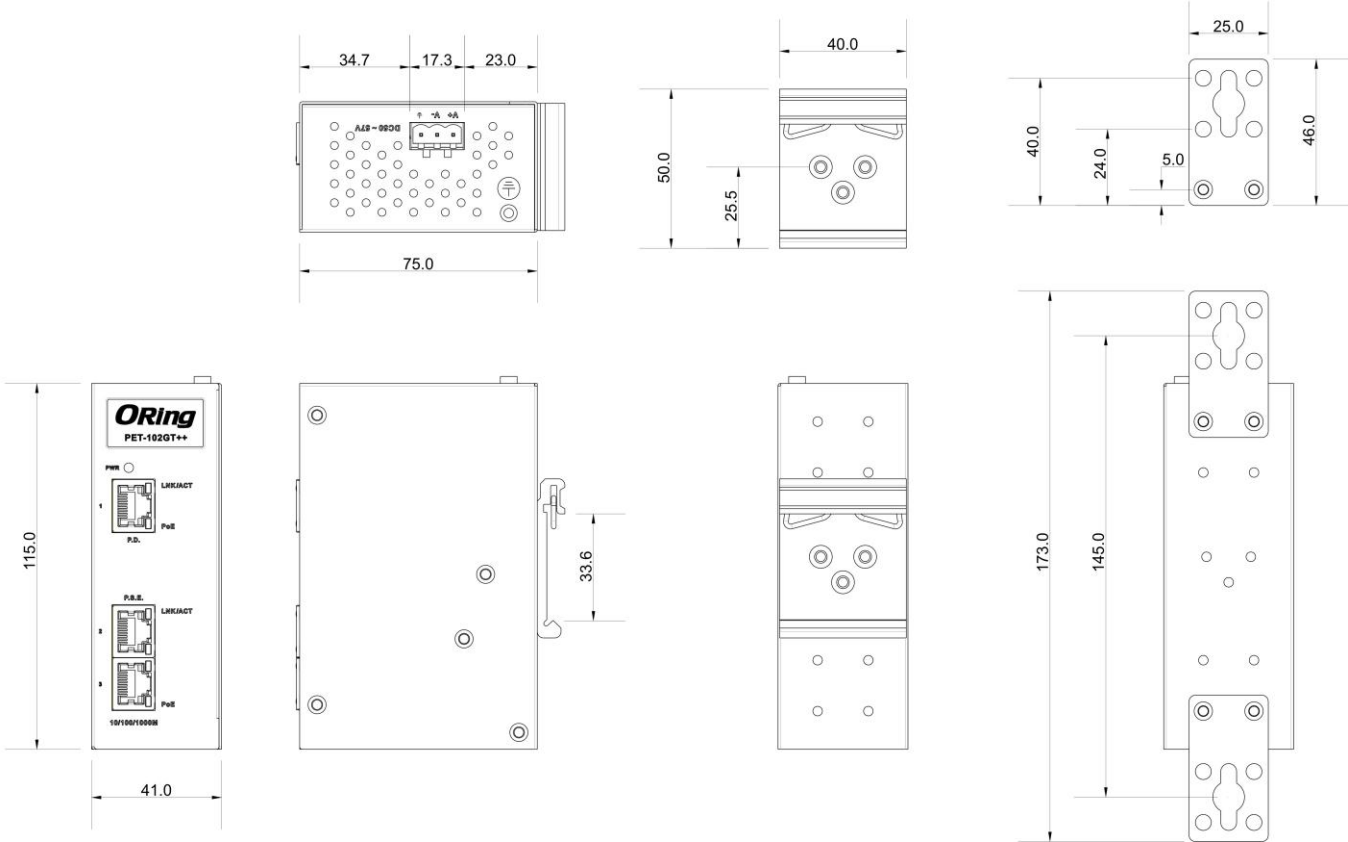
Introduction

ORing PET-102GT++ is a high power PoE extender and compatible with IEEE802.3at/af^[Note1] standard. With one 10/100/1000TxBase-T(X) P.D. input port and two 10/100/1000TxBase-T(X) P.S.E. output ports, the device not only pass on Ethernet data but also feed on and forward power from the previous PoE device to the next device. Furthermore, the PET-102GT++ can be powered by external DC power sources. By using external DC power to compensate for power losses caused by long-haul transmission, users can continue to use the PoE extender to enlarge the distance unlimitedly. With the ability to provide 90Watts^[Note3] PoE power per port, the PET-102GT++ is surely a user-friendly and high-power PoE extender.

Note1: The equipment being powered must be fully IEEE 802.3at/802.3af compliant in order for the power supply to be able to sense the PoE devices signature and apply power. Power is supplied on Ethernet pins 1/2 (V+) and 3/6 (V-).

Dimension

Dimension (Unit =mm)



Connector and Pin Definition

1000 Base-T

| Pin | RJ-45 Input (Data Only) | | RJ-45 Output (Data and Power) | |
|-----|-------------------------|-------------|-------------------------------|---|
| | Symbol | Description | Symbol | Description |
| 1 | BI_DA+ | Data BI_DA+ | BI_DA+ (Vdc1+) | Data BI_DA+ and Feeding Power(+) |
| 2 | BI_DA- | Data BI_DA- | BI_DA- (Vdc1+) | Data BI_DA- and Feeding Power(+) |
| 3 | BI_DB+ | Data BI_DB+ | BI_DB+ (Vdc1-) | Data BI_DB+ and Feeding Power(-) |
| 4 | BI_DC+ | Data BI_DC+ | BI_DC+ (Vdc2+) | Data BI_DC+ Feeding Power(+) ^[Note2] |
| 5 | BI_DC- | Data BI_DC- | BI_DC- (Vdc2+) | Data BI_DC- Feeding Power(+) ^[Note2] |
| 6 | BI_DB- | Data BI_DB- | BI_DB- (Vdc1-) | Data BI_DB- and Feeding Power(-) |
| 7 | BI_DD+ | Data BI_DD+ | BI_DD+ (Vdc2-) | Data BI_DD+ Feeding Power(-) ^[Note2] |
| 8 | BI_DD- | Data BI_DD- | BI_DD- (Vdc2-) | Data BI_DD- Feeding Power(-) ^[Note2] |

10/100 Base-TX

| Pin | RJ-45 Input (Data Only) | | RJ-45 Output (Data and Power) | |
|-----|-------------------------|---------------|-------------------------------|---|
| | Symbol | Description | Symbol | Description |
| 1 | Rx+ | Data Receive | Rx+ (Vdc1+) | Data Receive and Feeding power(+) |
| 2 | Rx- | Data Receive | Rx- (Vdc1+) | Data Receive and Feeding power(+) |
| 3 | Tx+ | Data Transmit | Tx+ (Vdc1-) | Data Transmit and Feeding power(-) |
| 4 | NC | Not Connected | NC (Vdc2+) | Not Connected Feeding power(+) ^[Note2] |
| 5 | NC | Not Connected | NC (Vdc2+) | Not Connected Feeding power(+) ^[Note2] |
| 6 | Tx- | Data Transmit | Tx- (Vdc1-) | Data Transmit and Feeding power(-) |
| 7 | NC | Not Connected | NC (Vdc2-) | Not Connected Feeding power(-) ^[Note2] |
| 8 | NC | Not Connected | NC (Vdc2-) | Not Connected Feeding power(-) ^[Note2] |

Note2: Only valid for PoE++ connection

Specifications

| ORing Injector Model | PET-102GT++ |
|--|--|
| Physical Ports | |
| RJ-45 Ethernet Port with P.D. Input | 1 |
| RJ-45 Ethernet Port with P.S.E. Output | 2 |
| Operating Voltage | |
| Input Voltage | 50 ~ 57 VDC |
| Output Power | 57V / 1579mA, 90 Watts max [Note3] per port |
| LED Indicators | |
| Power Indicator | DC PWR / Ready : 1 x LED Green On : Power is on and functioning Normally. |
| PoE P.D. Input Port Indicator | Green for Link/Act, Amber for PoE input enabled |
| PoE P.S.E. outputs Port Indicator | Green for Link/ACT, Amber for PoE output enabled |
| Protection | |
| Short Circuit Protection | Present |
| Over Load Protection | Present |
| Physical Characteristic | |
| Enclosure | IP-30 |
| Dimension (W x D x H) | 41(W) x 75 (D) x 115 (H)mm (1.61 x 2.95 x 4.52 inch) |
| Weight (g) | TBD |
| Environmental | |
| Storage Temperature | -40 to 80°C (-40 to 176°F) |
| Operating Temperature | -20 to 70°C (-4 to 158°F) |
| Operating Humidity | 5% to 90% Non-condensing |
| Regulatory Approvals | |
| EMI | FCC Part 15, CISPR (EN55022) class A |
| EMS | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 |
| Shock | IEC60068-2-27 |
| Free Fall | IEC60068-2-31 |
| Vibration | IEC60068-2-6 |
| Safety | EN60950-1 compliant |
| Warranty | 5 years |

Note 3: LTPoE++™ PSE technology is applied on this product. Only when an LTPoE++™ Powered Device (PD) is attached can the PSE port deliver up to 90W of output power.

Ordering Information

PET-102GT++

| Available Model | Model Name | Description |
|-----------------|-------------|---|
| | PET-102GT++ | Industrial 2-port Gigabit High Power PoE++ Extender |

Packing List

- PET-102GT++ x 1
- QIG x 1
- DIN-Rail Kit x 1
- Wall-mount Kit x 1

Optional Accessories

- DR-75-48 : 75 Watts DIN-Rail power supply
- DR-120-48 : 120 Watts DIN-Rail power supply