

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















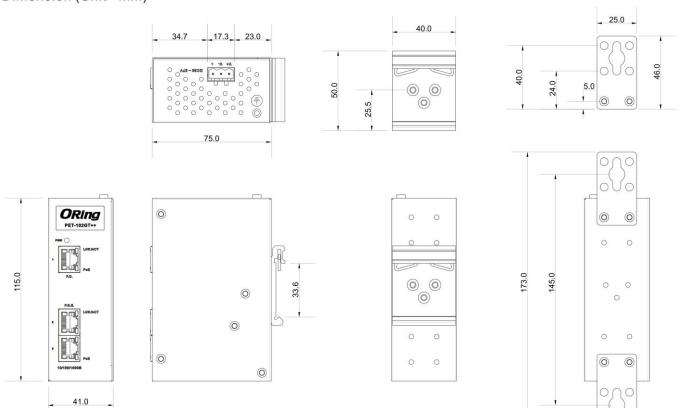
Introduction

ORing PET-102GT++ is a high power PoE extender and compatible with IEEE802.3at/af $\frac{[Note1]}{[Note1]}$ 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 Notes 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

	RJ-45 Inpu	t (Data Only)	RJ-45 Output (Data and Power)		
Pin	Symbol	Description	Symbol	Description	
1	DI DA I	Data BI_DA+	BI_DA+	Data BI_DA+ and	
1	BI_DA+		(Vdc1+)	Feeding Power(+)	
2	BI_DA-	Data BI_DA-	BI_DA-	Data BI_DA- and	
			(Vdc1+)	Feeding Power(+)	
3	BI_DB+	Data BI_DB+	BI_DB+	Data BI_DB+ and	
			(Vdc1-)	Feeding Power(-)	
4	BI_DC+	Data BI_DC+	BI_DC+	Data BI_DC+	
4			(Vdc2+)	Feeding Power(+)[Note2]	
5	BI DC-	Data BI_DC-	BI_DC-	Data BI_DC-	
J	DI_DC-		(Vdc2+)	Feeding Power(+)[Note2]	
6	BI_DB-	Data BI_DB-	BI_DB-	Data BI_DB- and	
O			(Vdc1-)	Feeding Power(-)	
7	BI_DD+	Data BI_DD+	BI_DD+	Data BI_DD+	
			(Vdc2-)	Feeding Power(-)[Note2]	
8	BI_DD-	Data BI_DD-	BI_DD-	Data BI_DD-	
0			(Vdc2-)	Feeding Power(-)[Note2]	

10/100 Base-TX

	RJ-45 Input (Data Only)		RJ-45 Outp	RJ-45 Output (Data and Power)	
Pin	Symbol	Description	Symbol	Description	
1	Rx+	Data Receive	Rx+	Data Receive and	
	100.1		(Vdc1+)	Feeding power(+)	
2	Rx-	Data Receive	Rx-	Data Receive and	
			(Vdc1+)	Feeding power(+)	
3	Tx+	Data Transmit	Tx+	Data Transmit and	
3	ΙX÷		(Vdc1-)	Feeding power(-)	
4	NC	Not Connected	NC	Not Connected	
7	NC		(Vdc2+)	Feeding power(+)[Note2]	
5	NC	Not Connected	NC	Not Connected	
3	INC.		(Vdc2+)	Feeding power(+)[Note2]	
6	Tx-	Data Transmit	Tx-	Data Transmit and	
0	IX-		(Vdc1-)	Feeding power(-)	
7	NC	Not Connected	NC	Not Connected	
			(Vdc2-)	Feeding power(-)[Note2]	
8	NC	Not Connected	NC	Not Connected	
0			(Vdc2-)	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			
	DC PWR / Ready : 1 x LED		
Power Indicator	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 Indicatior	S.E. outputs Port Indicatior 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 Name	Description	
Model	PET-102GT++	Industrial 2-port Gigabit High Power PoE++ Extender	

Packing List

- PET-102GT++ x 1
- DIN-Rail Kit x 1

Wall-mount Kit x 1

• QIG x 1

Optional Accessories

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