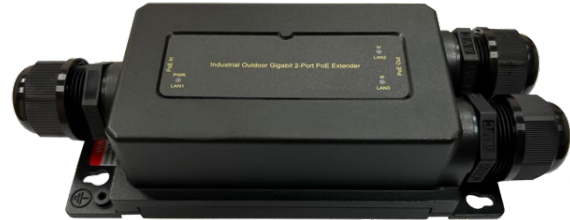


RP-IPE302B

Industrial 1-Port 802.3bt PoE to 2-Port 802.3at/bt IP67 PoE Extender



RP-IPE302B is an industrial IP67-level PoE extender, and it is equipped with 1 port 802.3bt PoE++ to 1-port 802.3bt PoE output and 1 port 802.3at PoE output. RP-IPE302B can obtain a maximum of 90 watts of PoE power from the input port and provide output port total PSE power maximum 60W.

Three RJ45 ports of RP-IPE302B, one is used as PD input, and the other two are used as PSE output, which makes the operation of RP-IPE302B not complicated, simple plug and play. This not only improves efficiency, but also expands the transmission range of PoE to 100 meters.

The IP67 protection grade shell makes RP-IPE302B have better moisture-proof, dust-proof, as well as better resistance to cold and heat, which makes RP-IPE302B adapt to more outdoor harsh environments.

Features

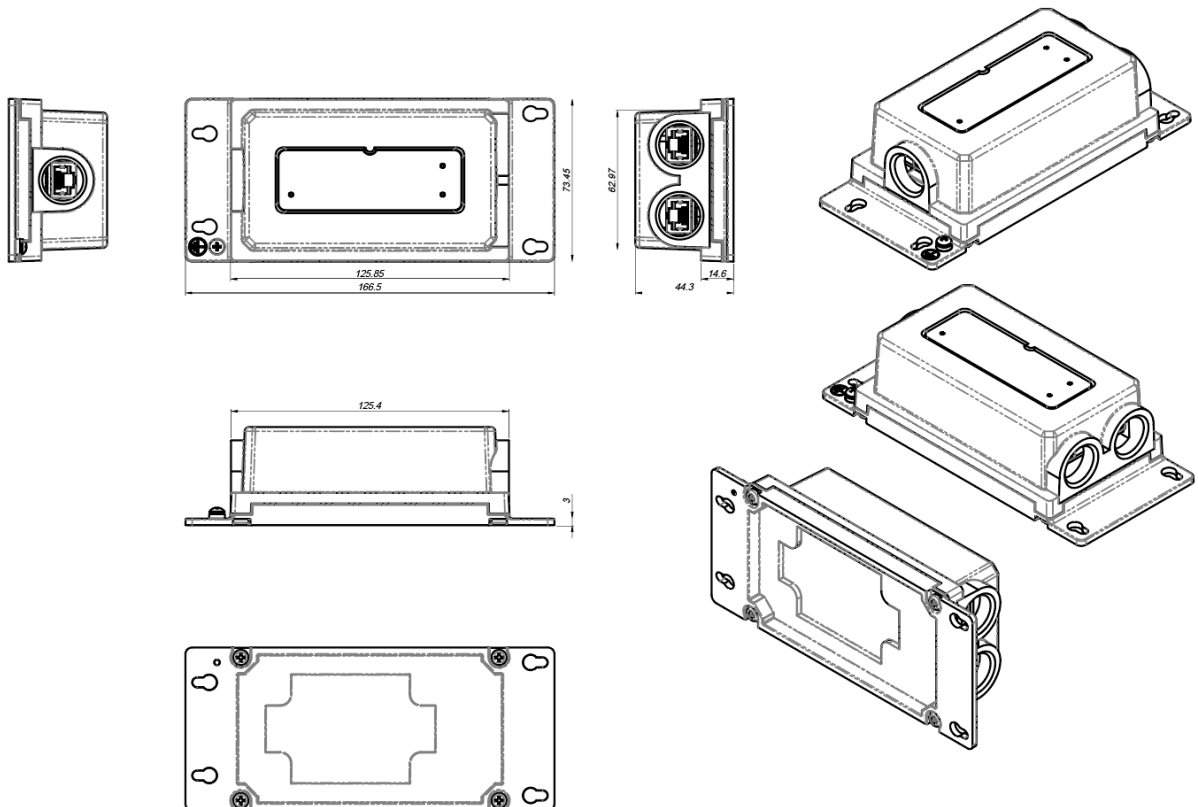
- Complies with IEEE802.3af/at/bt Standard
- IP67-rated aluminum case, protection level IP67
- Complete unit does not require power adapter
- One 90W PD Input, Two PSE output
- Data and power carried over the same cable
- Complete unit does not require power adapter
- Support Plug-and-play for the devices without any configuration
- Support 10/100/1000Mbps data transmission
- 10/100/1000Mbps data transmission and PoE power supply distance up to 100M
- Operating temperature: -40°C~75°C
- Ideal for harsh outdoor environment

Specifications

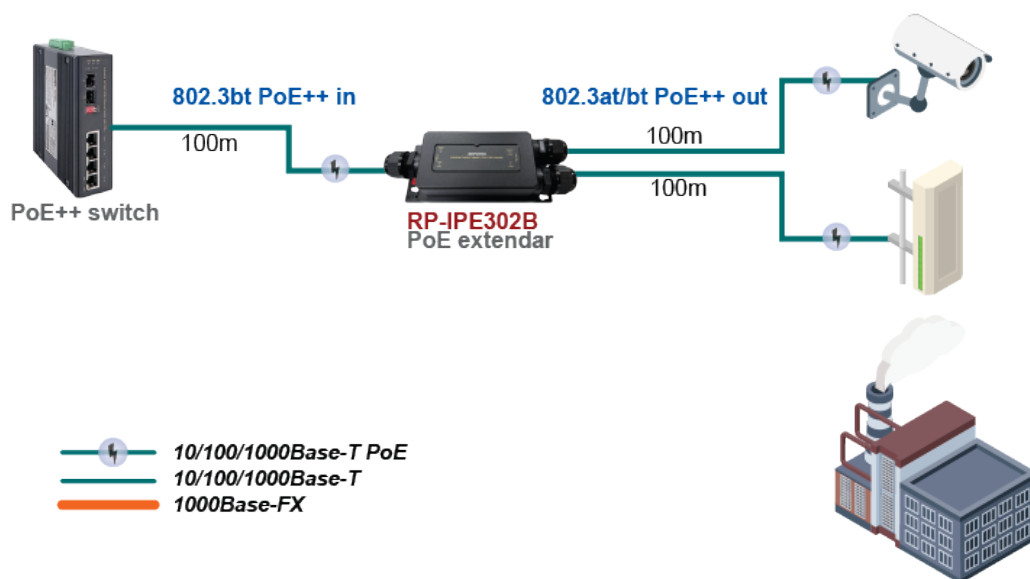
Standards	<ul style="list-style-type: none"> IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.3af for PoE IEEE 802.3at for PoE+ IEEE 802.3bt for PoE++ 																																																																					
Interface	<ul style="list-style-type: none"> 1xRJ-45 10/100/1000M with 802.3bt in 1xRJ-45 10/100/1000M with 802.3bt out 1xRJ-45 10/100/1000M with 802.3at out 																																																																					
Switch Architecture	<ul style="list-style-type: none"> Back-plane (Switching Fabric): 6Gbps 																																																																					
Data Processing	<ul style="list-style-type: none"> Store and forward 																																																																					
Flow Control	<ul style="list-style-type: none"> IEEE 802.3x Flow Control and Back Pressure 																																																																					
Jumbo Frame	<ul style="list-style-type: none"> 9KB 																																																																					
MAC Address Table Size	<ul style="list-style-type: none"> 2K 																																																																					
Packet Buffer Size	<ul style="list-style-type: none"> 1Mbits 																																																																					
Network Cable	<ul style="list-style-type: none"> UTP/STP above Cat.5e Cable, EIA/TIA-568 (100m) 																																																																					
Protocol	<ul style="list-style-type: none"> CSMA/CD 																																																																					
LED Indicators	<ul style="list-style-type: none"> PD IN: PWR/LAN1(Amber)- PoE is detected. (Green) -TX port is detected. PoE OUT: LAN2(bt) / LAN3 (at) (Amber) PSE is activated, and PD is detected. Flashing: PSE is detecting PD. (Green)TX port is detected Flashing: TX port data is transmitting/receiving 																																																																					
RJ45 Pin Assignment	<table border="1"> <thead> <tr> <th rowspan="2">RJ45 Pin</th> <th colspan="2">LAN1</th> <th colspan="2">LAN2</th> <th colspan="2">LAN3</th> </tr> <tr> <th>Data</th> <th>PoE IN</th> <th>Data</th> <th>PoE Out</th> <th>Data</th> <th>PoE Out</th> </tr> </thead> <tbody> <tr> <td>Pin 1</td> <td>BI_DA+</td> <td>V-</td> <td>BI_DA+</td> <td>V-</td> <td>BI_DA+</td> <td>V-</td> </tr> <tr> <td>Pin 2</td> <td>BI_DA-</td> <td>V-</td> <td>BI_DA-</td> <td>V-</td> <td>BI_DA-</td> <td>V-</td> </tr> <tr> <td>Pin 3</td> <td>BI_DB+</td> <td>V+</td> <td>BI_DB+</td> <td>V+</td> <td>BI_DB+</td> <td>V+</td> </tr> <tr> <td>Pin 4</td> <td>BI_DC+</td> <td>V+</td> <td>BI_DC+</td> <td>V+</td> <td>BI_DC+</td> <td></td> </tr> <tr> <td>Pin 5</td> <td>BI_DC-</td> <td>V+</td> <td>BI_DC-</td> <td>V+</td> <td>BI_DC-</td> <td></td> </tr> <tr> <td>Pin 6</td> <td>BI_DB-</td> <td>V+</td> <td>BI_DB-</td> <td>V+</td> <td>BI_DB-</td> <td>V+</td> </tr> <tr> <td>Pin 7</td> <td>BI_DD+</td> <td>V-</td> <td>BI_DD+</td> <td>V-</td> <td>BI_DD+</td> <td></td> </tr> <tr> <td>Pin 8</td> <td>BI_DD-</td> <td>V-</td> <td>BI_DD-</td> <td>V-</td> <td>BI_DD-</td> <td></td> </tr> </tbody> </table>	RJ45 Pin	LAN1		LAN2		LAN3		Data	PoE IN	Data	PoE Out	Data	PoE Out	Pin 1	BI_DA+	V-	BI_DA+	V-	BI_DA+	V-	Pin 2	BI_DA-	V-	BI_DA-	V-	BI_DA-	V-	Pin 3	BI_DB+	V+	BI_DB+	V+	BI_DB+	V+	Pin 4	BI_DC+	V+	BI_DC+	V+	BI_DC+		Pin 5	BI_DC-	V+	BI_DC-	V+	BI_DC-		Pin 6	BI_DB-	V+	BI_DB-	V+	BI_DB-	V+	Pin 7	BI_DD+	V-	BI_DD+	V-	BI_DD+		Pin 8	BI_DD-	V-	BI_DD-	V-	BI_DD-	
RJ45 Pin	LAN1		LAN2		LAN3																																																																	
	Data	PoE IN	Data	PoE Out	Data	PoE Out																																																																
Pin 1	BI_DA+	V-	BI_DA+	V-	BI_DA+	V-																																																																
Pin 2	BI_DA-	V-	BI_DA-	V-	BI_DA-	V-																																																																
Pin 3	BI_DB+	V+	BI_DB+	V+	BI_DB+	V+																																																																
Pin 4	BI_DC+	V+	BI_DC+	V+	BI_DC+																																																																	
Pin 5	BI_DC-	V+	BI_DC-	V+	BI_DC-																																																																	
Pin 6	BI_DB-	V+	BI_DB-	V+	BI_DB-	V+																																																																
Pin 7	BI_DD+	V-	BI_DD+	V-	BI_DD+																																																																	
Pin 8	BI_DD-	V-	BI_DD-	V-	BI_DD-																																																																	
Overload current protection	<ul style="list-style-type: none"> Present 																																																																					

PD Power Input	<ul style="list-style-type: none"> Maximum 90W
PoE Power	<ul style="list-style-type: none"> Maximum total PSE power output 60W
Environment	<ul style="list-style-type: none"> Operating temperature: -40°C~75°C Storage temperature: -40°C ~85°C Operating Humidity: 5% to 95% (Non-Condensing)
Dimension	<ul style="list-style-type: none"> 166.5x73.45x44.3 mm (LxWxH)
Housing	<ul style="list-style-type: none"> Rugged Aluminum, IP67Protection
Installation	<ul style="list-style-type: none"> Wall Mount Design
EMC	<ul style="list-style-type: none"> CE, FCC
EMI	<ul style="list-style-type: none"> CISPR 32, FCC Part 15B Class A
EMS	<ul style="list-style-type: none"> IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 4KV; Signal: 2KV
Vibration	<ul style="list-style-type: none"> EN 50155 / EN 60068-2-6
Shock	<ul style="list-style-type: none"> EN 50155 / EN 60068-2-27
Free Fall	<ul style="list-style-type: none"> EN 50155 / EN 60068-2-32

Dimension



Application



Ordering Information

RP-IPE302B 1-Port 802.3bt PoE to 2-Port 802.3at/bt IP67 PoE Extender