



## **RP-IPE201**

### **Industrial Gigabit 802.3at PoE Extender**

RP-IPE201 is a compact yet powerful device designed to enhance Power over Ethernet (PoE) capabilities. It features 1 PD input, allowing it to power a single Giga PSE output. Powered by the PSE source, the RP-IPE201 can accept an input of up to 95W, providing flexible power output options of 15W, 30W, or 60W to the target PD device. This versatility ensures efficient power distribution based on the specific requirements of the connected device.

One of the notable features of the RP-IPE201 is its ability to extend the PoE link range. It can extend the range to 100 meters, enabling the powering of PDs over long distances. Additionally, by cascading up to 4 extenders, it can extend the range of PSE equipment by an additional 400 meters. This means a total range of 500 meters can be achieved via CAT 5e/6 Ethernet cabling, making it ideal for scenarios where extended network coverage is crucial.

With its IP30 industrial case protection, the RP-IPE201 is built to withstand demanding environments. It can operate in temperatures ranging from -40°C to 75°C, making it suitable for both indoor and outdoor settings. This robust construction ensures long-term reliability and durability, further enhancing its appeal for industrial applications where performance and resilience are essential.

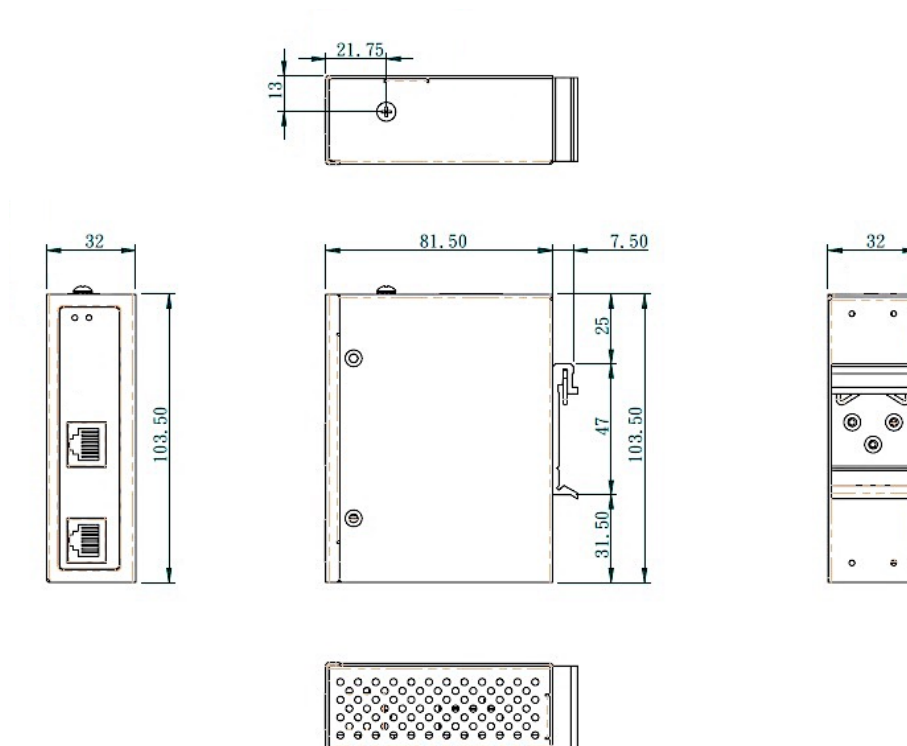
### **Features**

- Complies with IEEE802.3af/at Standard
- Supports 10/100/1000Mbps data transmission
- Complete unit does not require power adapter
- Support Plug-and-play for the devices without any configuration
- Built-in hardened PoE and PD controller
- Can be cascaded up to 4 units or 500 meters at PD input 56V
- Operating Temp.: -40°C to 75°C

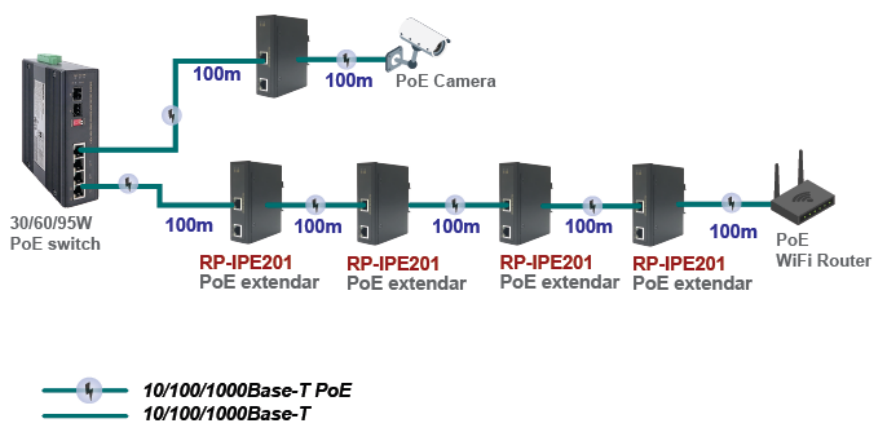
## Specifications

<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T Ethernet</li> <li>• IEEE 802.3u 100Base-TX Fast Ethernet</li> <li>• IEEE 802.3ab 1000Base-T Gigabit Ethernet</li> <li>• IEEE 802.3x Flow Control and Back Pressure</li> <li>• IEEE 802.3af for PoE</li> <li>• IEEE 802.3at for PoE+</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>• 1 x RJ-45 10/100/1000BaseT 95W PD</li> <li>• 1 x RJ-45 10/100/1000BaseT 60W PSE</li> </ul>
<b>Switch Architecture</b>	<ul style="list-style-type: none"> <li>• Back-plane (Switching Fabric): 4Gbps</li> </ul>
<b>Data Processing</b>	<ul style="list-style-type: none"> <li>• Store and forward</li> </ul>
<b>Flow Control</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3x Flow Control and Back Pressure</li> </ul>
<b>Jumbo Frame</b>	<ul style="list-style-type: none"> <li>• 9KB</li> </ul>
<b>MAC Address Table Size</b>	<ul style="list-style-type: none"> <li>• 2K</li> </ul>
<b>Packet Buffer Size</b>	<ul style="list-style-type: none"> <li>• 1Mbits</li> </ul>
<b>Network Cable</b>	<ul style="list-style-type: none"> <li>• UTP/STP above Cat.5e Cable, EIA/TIA-568 (100m)</li> </ul>
<b>Protocol</b>	<ul style="list-style-type: none"> <li>• CSMA/CD</li> </ul>
<b>LED Indicators</b>	<ul style="list-style-type: none"> <li>• PoE OUT (Green): ON-PSE is activated and PD is detected</li> <li>• PD IN (Green): ON-Power is detected</li> <li>• LNK (Green): ON-TX port is detected</li> <li>• SPEED(Amber): ON-Giga Speed is detected</li> </ul>
<b>Reverse polarity protection</b>	<ul style="list-style-type: none"> <li>• Present</li> </ul>
<b>Overload current protection</b>	<ul style="list-style-type: none"> <li>• Present</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• 2.7W without PoE load</li> </ul>
<b>PD Power Input</b>	<ul style="list-style-type: none"> <li>• 15W/30W/60W/95W</li> </ul>
<b>PoE Power</b>	<ul style="list-style-type: none"> <li>• 15W/30W/60W per PSE</li> <li>• Maximum total PSE power output 60W</li> </ul>
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Operating temperature: -40°C~75°C</li> <li>• Storage temperature: -40°C ~85°C</li> <li>• Operating Humidity: 5% to 95% (Non-Condensing)</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>• 103.5 x 32 x 81.5 mm (LxWxD)</li> </ul>
<b>Housing</b>	<ul style="list-style-type: none"> <li>• Rugged Aluminum, IP30 Protection</li> </ul>
<b>Installation</b>	<ul style="list-style-type: none"> <li>• DIN Rail and Wall Mount Design</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>• IEC EN60950-1</li> </ul>
<b>EMC</b>	<ul style="list-style-type: none"> <li>• CE, FCC, EN 55032/24</li> </ul>
<b>EMI</b>	<ul style="list-style-type: none"> <li>• FCC Part 15 Subpart B Class A, CE EN 55022 Class A</li> </ul>
<b>EMS</b>	<ul style="list-style-type: none"> <li>• IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV</li> <li>• IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV</li> <li>• IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV</li> </ul>
<b>Vibration</b>	<ul style="list-style-type: none"> <li>• EN 50155 / EN 60068-2-6</li> </ul>
<b>Shock</b>	<ul style="list-style-type: none"> <li>• EN 50155 / EN 60068-2-27</li> </ul>
<b>Free Fall</b>	<ul style="list-style-type: none"> <li>• EN 50155 / EN 60068-2-32</li> </ul>

## Dimension



## Application



## Ordering information

**RP-IPE201** Industrial Gigabit 802.3at PoE Extender