



## **RP-IMC811FP-60W**

### **10/100/1000Base-TX to 100/1000Base-X SFP Industrial PoE+ Media Converter**

RP-IMC811FP-60W is an Industrial PoE Converter that stands out for its exceptional stability and environmental adaptability. This converter is equipped with a 10/100/1000BASE-T RJ45 copper port and a slot for a 100/1000BASE-X SFP module, offering versatile connectivity options to suit various network devices. It adheres to IEEE 802.3af/at standards, delivering a robust PoE power budget of up to 60W. The innovative Cold-Design not only efficiently powers the connected PD device but also minimizes excessive heat, ensuring optimal performance and device longevity.

Operating in a temperature range from -40 to 75°C, the RP-IMC811FP-60W can thrive in even the most challenging environments. This adaptability makes it a reliable solution for a wide range of applications, including scenarios with extreme temperature variations. Additionally, the IP30 industrial case protection provides a high level of immunity against corrosion and electromagnetic interference, enhancing the device's resilience. The converter's flexible installation options, allowing either DIN rail or wall mounting, make it an efficient space-utilizing choice for deployment in various industrial setups.

RP-IMC811FP-60W combines adherence to PoE standards, a wide operating temperature range, industrial-grade protection, and versatile installation options. Its ability to maintain stable performance in demanding environments, coupled with efficient power delivery and space efficiency, makes it a valuable asset for critical applications where reliability, adaptability, and robustness are key requirements.

## **Features**

- Supports 48V-56VDC, Redundant power input
- Adjustable SFP speed 100M or 1000M
- PoE Output power up to 60Watts
- Reverse polarity protection
- Overload current protection
- ESD protection diodes on RJ-45 port
- 2K MAC Table
- 9KB Jumbo Frame

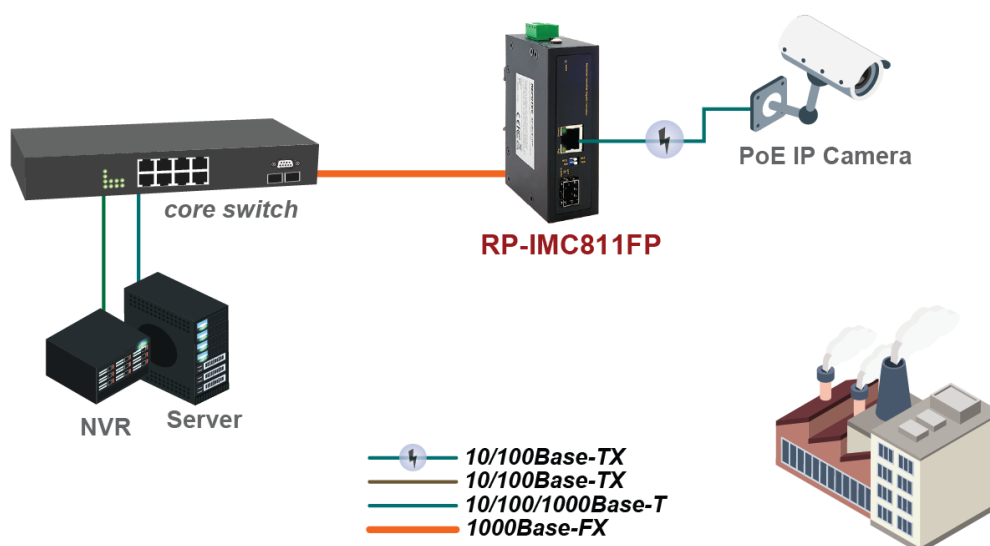
- Rugged Aluminum IP30 Protection enclosure
- Operating Temperature: -40°C to +75°C

## 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 802.3z 1000Base-X Gigabit Ethernet</li> <li>• IEEE802.3x Flow Control and Back Pressure</li> <li>• IEEE802.3af/at PoE</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>Switch Architecture</b>	<ul style="list-style-type: none"> <li>• Back-plane (Switching Fabric): 4Gbps</li> </ul>
<b>MAC Table Size</b>	<ul style="list-style-type: none"> <li>• 2K</li> </ul>
<b>Jumbo Frame</b>	<ul style="list-style-type: none"> <li>• 9KB</li> </ul>
<b>Packet Buffer Size</b>	<ul style="list-style-type: none"> <li>• 1M</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>• 1x RJ-45 10/100/1000BaseT(X) PSE with PoE Output power up to 30Watts or 60Watts</li> <li>• 1x 100/1000M SFP slot</li> </ul>
<b>Network Cable</b>	<ul style="list-style-type: none"> <li>• UTP/STP above Cat.5e Cable</li> <li>• EIA/TIA-568 10-ohm (100m)</li> </ul>
<b>Protocol</b>	<ul style="list-style-type: none"> <li>• CSMA/CD</li> </ul>
<b>POE Pin Assignment</b>	<ul style="list-style-type: none"> <li>• 60 watts 4 pairs Mode A End Span V+, V+, V-, V- for pin 1, 2, 3, 6 ; V+, V+, V-, V- for pin 4, 5, 7, 8</li> </ul>
<b>LED indicators</b>	<ul style="list-style-type: none"> <li>• PWR (Green)</li> <li>• SFP Lnk/Act (Green)</li> <li>• RJ-45: Lnk/Act (Green), PoE (Amber)</li> </ul>
<b>DIP Switch</b>	<ul style="list-style-type: none"> <li>• Set SFP speed 100M or 1000M</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 Supply</b>	<ul style="list-style-type: none"> <li>• 4 pin terminal block with 48V-56V VDC Power Input</li> <li>• SW ( Relay ): Relay switch for alarm</li> </ul>
<b>Alarm Relay Contact</b>	<ul style="list-style-type: none"> <li>• Relay outputs with current carrying capacity of 1 A @24VDC,</li> <li>• Relay in short circuit mode when power fails.</li> <li>• Relay in open circuit mode when power supply is connected</li> </ul>

<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>2W @48 VDC full load, Without PoE</li> </ul>
<b>PoE power budget</b>	<ul style="list-style-type: none"> <li>Max. PoE power 72watts at 56VDC input</li> </ul>
<b>Removable Terminal Block</b>	<ul style="list-style-type: none"> <li>Provide 4 pin terminal block</li> <li>Wire range: 0.34mm<sup>2</sup> to 2.5mm<sup>2</sup></li> <li>Solid wire (AWG):12-24/14-22</li> <li>Stranded wire(AWG): 12-24/14-22</li> <li>Torque:5lb-In/0.5Nm/0.56Nm</li> <li>Wire Strip length: 7-8mm</li> </ul>
<b>Operating Temperature</b>	<ul style="list-style-type: none"> <li>-40℃~75℃</li> </ul>
<b>Operating Humidity</b>	<ul style="list-style-type: none"> <li>5% to 95% (Non-condensing)</li> </ul>
<b>Storage Temperature</b>	<ul style="list-style-type: none"> <li>-40℃~85℃</li> </ul>
<b>Housing</b>	<ul style="list-style-type: none"> <li>Rugged Aluminum ,IP30 Protection</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>103.5 x 32 x 81.5mm (LxWxD)</li> </ul>
<b>Installation mounting</b>	<ul style="list-style-type: none"> <li>DIN Rail mounting and Wall Mounting</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>IEC EN60950-1</li> </ul>
<b>EMC/EMS</b>	<ul style="list-style-type: none"> <li>CE, FCC</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>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>

## Application



## Ordering information

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