



## **RP-IMC801FP**

### **10/100/1000M TX to 100/1000M SFP Industrial Media Converter**

This mini, rugged Industrial Gigabit media converter is designed for Security, Transportation and Telco application to expand your network distances. It can be powered by wide range of VAC , VDC or external DC power adapter . With its multi-purpose design, it can also be used for Din-Rail or wall-mounted. It is an ideal unit for IP surveillance, traffic monitoring and Security application in critical environment. It can tolerate -20°C to 70°C in harsh environment to perform a reliable network.

## **Feature**

- Rugged design enclosure.
- Supports 18V-36VAC/12V-56VDC, Redundant power input
- Supports Link Fault Pass through (LFP) function
- Supports switch model and converter mode
- Adjustable SFP speed 100M or 1000M
- Surge protection diodes on power input
- ESD protection diodes on RJ-45 port
- Provides Far End Fault function on FX port
- Provides increased Noise Immunity
- Extended environmental specification -20°C to 70°C

## Specification

|                                 |                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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> </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>Architecture</b>             | <ul style="list-style-type: none"> <li>• Full wire speed conversion</li> <li>• Auto negotiation</li> <li>• Full/Half duplex</li> <li>• Auto MDI/MDI-X function</li> <li>• Supports LFP (Link Fault Pass Through) function</li> <li>• Supports 9K bytes jumbo frame</li> </ul>                                                       |
| <b>MAC Table Size</b>           | <ul style="list-style-type: none"> <li>• 1K</li> </ul>                                                                                                                                                                                                                                                                              |
| <b>Jumbo Frame</b>              | <ul style="list-style-type: none"> <li>• 9KB</li> </ul>                                                                                                                                                                                                                                                                             |
| <b>Interface</b>                | <ul style="list-style-type: none"> <li>• Twisted Pair:<br/>10/100/1000 Base-T(X) RJ-45 Distance 100 M</li> <li>• Optical Fiber:<br/>SFP pluggable fiber, 100M or 1000M by adjustable dip switch</li> </ul>                                                                                                                          |
| <b>LED indicators</b>           | <ul style="list-style-type: none"> <li>• Power: PW1 (Green) , PW2 (Green)</li> <li>• Twisted Pair: 1000M/Link/Act (Green), 100M Link/Act (Yellow)</li> <li>• Optical Fiber: Link/Act (Green)</li> </ul>                                                                                                                             |
| <b>DIP Switch</b>               | <ul style="list-style-type: none"> <li>• Set SFP speed 100M or 1000M</li> <li>• Set Enable or Disable SFP Auto-Negotiation</li> <li>• Set Switch mode / Pass Through mode</li> <li>• Set LFP (Link Fault Pass Through) : Enable / Disable</li> </ul>                                                                                |
| <b>Power protection</b>         | <ul style="list-style-type: none"> <li>• Surge protection diodes on power input</li> <li>• Reverse polarity protection on power input</li> <li>• Overload current protection</li> </ul>                                                                                                                                             |
| <b>Power Input</b>              | <ul style="list-style-type: none"> <li>• Redundant Power 1 and Power 2</li> <li>• 18V-36VAC or 12V-56VDC</li> </ul>                                                                                                                                                                                                                 |
| <b>Power Consumption</b>        | <ul style="list-style-type: none"> <li>• Max 3 Watts</li> </ul>                                                                                                                                                                                                                                                                     |
| <b>Removable Terminal Block</b> | <ul style="list-style-type: none"> <li>• 4 pin contact terminal block for power input</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>• Wire Strip length : 7-8mm</li> <li>• Torque : 5lb-In/0.5Nm/0.56Nm</li> </ul> |
| <b>Operating Temperature</b>    | <ul style="list-style-type: none"> <li>• -20°C~70°C</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°C~85°C</li> </ul>                                                                                                                                                                                                                                                                      |
| <b>Housing</b>                  | <ul style="list-style-type: none"> <li>• IP40 Design, high graded Aluminum</li> </ul>                                                                                                                                                                                                                                               |
| <b>Dimension</b>                | <ul style="list-style-type: none"> <li>• 103.5mmx32mmx81.5mm (LxWxD)</li> </ul>                                                                                                                                                                                                                                                     |
| <b>Installation mounting</b>    | <ul style="list-style-type: none"> <li>• DIN Rail mounted, Panel Mounted</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>                                                                                                                                                                                                                                                        |

## **Ordering information**

**RP-IMC801FP**      10/100/1000M TX to 100/1000M SFP Industrial Media Converter