

## **RP-IMC601 series**

### **10/100Base-TX to 100Base-FX Industrial Media Converter**

RP-IMC601FP is a versatile 10/100Base-TX to 100Base-FX SFP Industrial Media Converter, designed to address the unique challenges of outdoor environments with limited space, making it an excellent fit for outdoor CAM enclosures. This compact yet powerful media converter can be powered by a wide range of sources, including VAC, VDC, or an external DC power adapter, supporting a broad voltage range from 18V to 36VAC or 12V to 56VDC. This flexibility ensures that it can adapt to different power supply scenarios, enhancing its usefulness in diverse setups.

The adaptable design of the RP-IMC601FP extends beyond its power options. It can be conveniently utilized with either a Din-Rail or wall-mounted installation, providing installation flexibility based on the specific requirements of the environment. This multipurpose approach makes it an ideal choice for IP surveillance, traffic monitoring, and security applications, particularly in critical environments. Furthermore, its resilience is remarkable, withstanding a wide temperature range from -40°C to 75°C, making it reliable even in harsh conditions, where consistent network performance is crucial.

RP-IMC601FP represents a compact powerhouse in the realm of industrial media converters. Its ability to handle challenging outdoor conditions, coupled with its flexible power options and installation choices, positions it as a reliable and adaptable solution for various critical applications.

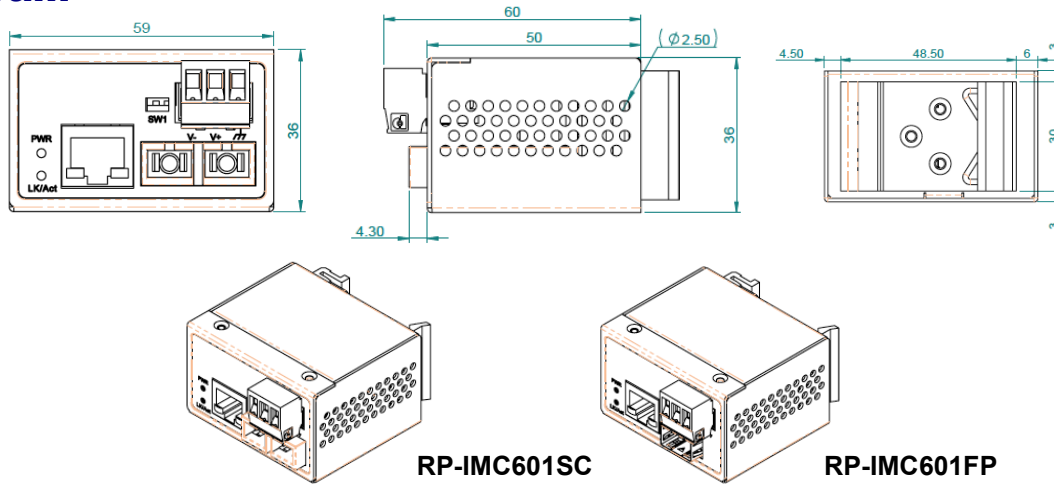
## **Features**

- Supports 18V-36VAC/12V-56VDC or DC Jack socket
- Supports Link Fault Pass through (LFP) function
- Supports switch model and converter mode.
- 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 -40°C to 75°C
- True Mini, rugged design enclosure 58x36x49mm (LxWxD)

## Diagram

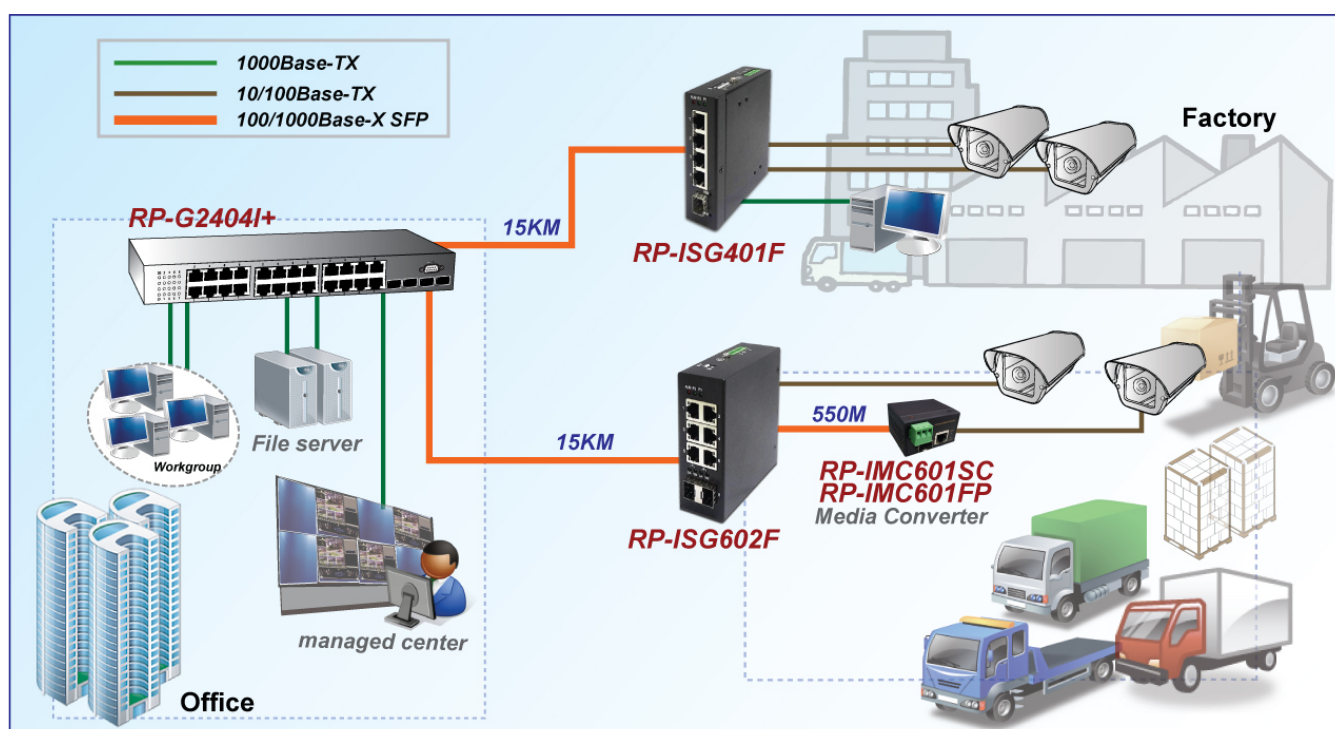


## Specifications

<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 802.3u 100Base-FX Fast Ethernet</li> <li>• IEEE802.3x Flow Control and Back Pressure</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>• Transparent conversion to 802.1Q VLAN tagged packets.</li> </ul>
<b>MAC Table Size</b>	<ul style="list-style-type: none"> <li>• 1K</li> </ul>
<b>Packet Buffer Size</b>	<ul style="list-style-type: none"> <li>• 1Mbits</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>• 1 RJ-45 port: 10/100M Base-T(X) Auto negotiation, Auto MDI/MDI-X function, Full/Half duplex</li> <li>• 1 Fiber port: <ul style="list-style-type: none"> <li>- 100BaseFX MM/SC up to 2km (RP-IMC601SC)</li> <li>- 100BaseFX SM/SC up to 30km (RP-IMC601C30)</li> <li>- 100BaseX SFP slot (RP-IMC601FP)</li> </ul> </li> </ul>
<b>LED indicators</b>	<ul style="list-style-type: none"> <li>• Power, Speed, Link/Act</li> <li>• Speed (TP port)</li> <li>• Link/Act (TP and Fiber port)</li> </ul>
<b>DIP Switch</b>	<ul style="list-style-type: none"> <li>• Link Fault Pass Through (LFP)</li> <li>• Converter Mode, Switch Mode</li> </ul>
<b>Power protection</b>	<ul style="list-style-type: none"> <li>• Surge protection diodes on power input</li> </ul>
<b>Connector protection</b>	<ul style="list-style-type: none"> <li>• ESD protection diodes on TX port</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 Input</b>	<ul style="list-style-type: none"> <li>• 18V-30VAC,</li> <li>• 12V-56VDC,</li> <li>• DC Jack terminal cable supported (DC Barrel Connector )</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• Max 2.5Watts</li> </ul>
<b>Conformance to UL Standards</b>	<ul style="list-style-type: none"> <li>• Use Isolated power supply to conform with UL 508 standard</li> </ul>
<b>Removable Terminal Block</b>	<ul style="list-style-type: none"> <li>• 3 pin contact terminal block for power input</li> </ul>
<b>Operating Temperature</b>	<ul style="list-style-type: none"> <li>• -40°C~75°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>• 58x36x49mm (LxWxD)</li> </ul>
<b>Installation mounting</b>	<ul style="list-style-type: none"> <li>• DIN Rail mounted,</li> <li>• Panel Mounted,</li> </ul>
<b>EMC/EMS</b>	<ul style="list-style-type: none"> <li>• CE, FCC, ROHS</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>• EN60950-1</li> </ul>

## Application



## Ordering information

<b>RP-IMC601SC</b>	10/100Base-TX to 100Base-FX Industrial Media Converter, Multi-mode, 2km/1310nm, SC connector
<b>RP-IMC601C30</b>	10/100Base-TX to 100Base-X SFP Industrial Media Converter Single-mode, 30km/1310nm, SC connector
<b>RP-IMC601FP</b>	10/100Base-TX to 100Base-X SFP Industrial Media Converter

### REPOTEC CO., LTD.

3F., No.258, Liancheng Rd., Zhonghe District., New Taipei City 235, Taiwan  
 TEL: 886-2-8227-1888 FAX: 886-2-8227-1818