



RP-IMC621 Series

2-P 10/100Base-TX PoE to 100Base-FX Industrial Media Converter

RP-IMC621 series is an Industrial PoE Converter providing superior performance in stability environmental adaptability. It equips with two 10/100 Base-TX and one fiber optic connector by which extends various distance.

RP-IMC621 complies with IEEE 802.3af/at standards for supplying PoE power budget up to 60W. Its Smart Link feature acts as a watchdog for your critical ports that send port link fail signal to alarm relay when link down detected. And it can also be set as a media converter to execute LFP (Link Fault Pass-Through) to notify remote site. The wide operating temperature range $-40^{\circ}\text{C}\sim 75^{\circ}\text{C}$ allows RP-IMC621 to be placed in almost any difficult environment.

With IP30 industrial case protection, RP-IMC621 provides a high level of immunity against corrosion and electromagnetic interference. RP-IMC621 also allows either DIN rail or wall mounting for efficient use of cabinet space.

Features

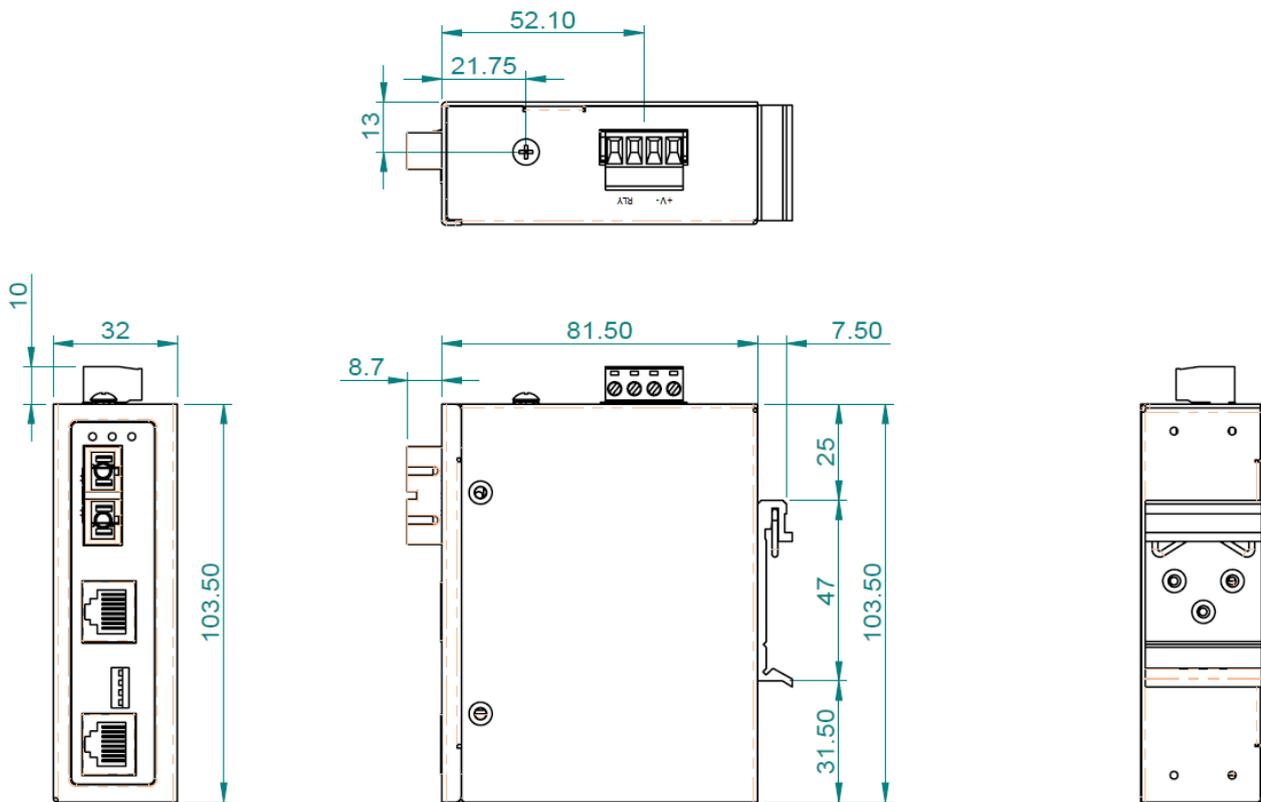
- With “Smart Link” features to send link-fail signal to alarm relay by selectable 4 pin dip-switch for critical ports
- Support Link Fault Pass-through (LFP) to notify remote site
- With 2 port PSE, 30Watts power per port for IEEE802.3af/at
- Reverse polarity protection
- Surge protection diodes on power input.
- ESD protection diodes on RJ-45 port
- Provides increased Noise Immunity
- Input voltage range from 48-56 VDC
- Working in extreme environment -40°C to $+75^{\circ}\text{C}$

Specifications

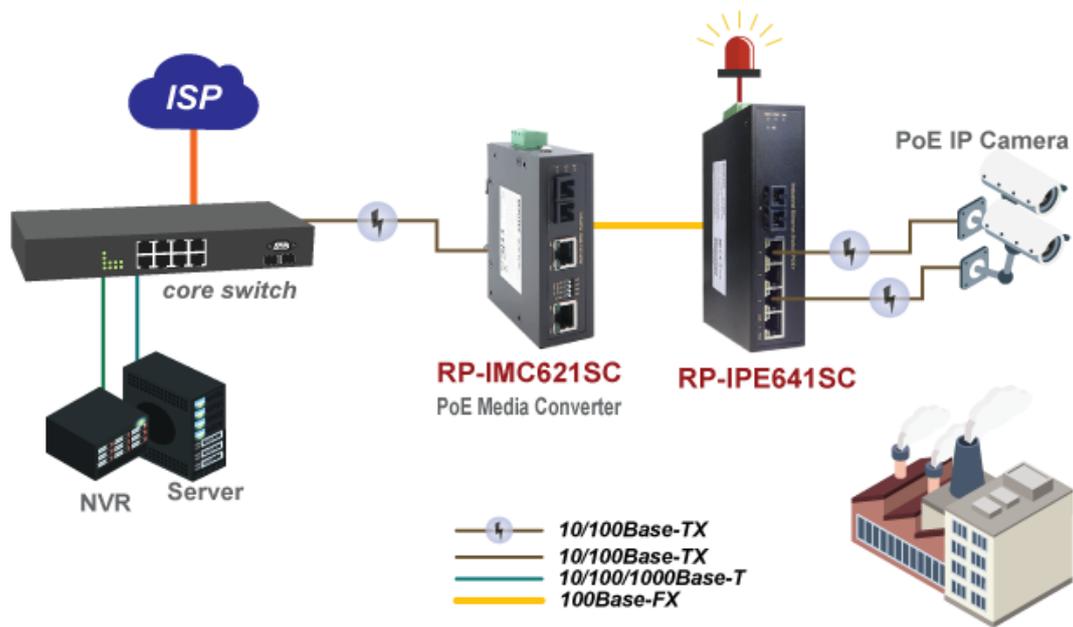
Standards	<ul style="list-style-type: none"> • IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 100Base-TX Fast Ethernet • IEEE 802.3u 100Base-FX Fast Ethernet • IEEE802.3x Flow Control and Back Pressure • IEEE802.3af / at for PoE
Switch Architecture	<ul style="list-style-type: none"> • Back-plane (Switching Fabric): 600Mbps
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
MAC Table Size	<ul style="list-style-type: none"> • 1K
Interface	<ul style="list-style-type: none"> • 2 x RJ-45 Prot: 10/100M Base-T(X) Auto negotiation, Auto MDI/MDI-X function, Full/Half duplex, PoE+ 802.3af/at 30W PSE port • 1 x Fiber port: - 100BaseFX MM/SC up to 2km (RP-IMC621SC) - 100BaseFX SM/SC up to 10km (RP-IMC621C10) - 100BaseFX MM/ST up to 2km (RP-IMC621ST)
LED indicators	<ul style="list-style-type: none"> • RLY (Amber), PW (Green) • RJ-45 port: LNK(Green), POE(Amber) • FX(Green)
DIP Switch	<ul style="list-style-type: none"> • Dip 1: ON-Port 1 LFP enabled, OFF-LFP disabled (Default) • Dip 2: ON-Port 2 LFP enabled, OFF-LFP disabled (Default) • Dip 3: ON-Port 3 LFP enabled, OFF-LFP disabled (Default) • Dip 4: ON-LFP function on, OFF-LFP function off (Default)
Power protection	<ul style="list-style-type: none"> • Surge protection diodes on power input • Reverse polarity protection • Overload current protection
Power Consumption	<ul style="list-style-type: none"> • 3W @48 VDC full load, without PoE • Max PoE per port 36W at 56VDC input • Max total power with PoE 72W
Power Input	<ul style="list-style-type: none"> • 48-56VDC power input • PoE input 48-56VDC
Removable Terminal Block	<ul style="list-style-type: none"> • Provide 4 pin terminal block, V+, V-, and Relay • Wire range: 0.34mm² to 2.5mm² • Solid wire (AWG):12-24/14-22 • Stranded wire(AWG): 12-24/14-22 • Torque:5lb-In/0.5Nm/0.56Nm • Wire Strip length: 7-8mm
Alarm Relay	<ul style="list-style-type: none"> • 24VDC @ 1A • Normal state – open, Relay LED OFF • Triggered states – short, Relay LED ON
Environment	<ul style="list-style-type: none"> • Operating Temperature: -40°C~75°C

	<ul style="list-style-type: none"> Operating Humidity: 5% to 95% (Non-condensing) Storage Temperature: -40°C ~85°C
Housing	<ul style="list-style-type: none"> High graded Aluminum, IP30 Protection
Dimension	<ul style="list-style-type: none"> 103.5 x 32 x 81.5mm (HxWxD)
Installation mounting	<ul style="list-style-type: none"> DIN Rail mounted, Wall Mounted
Safety	<ul style="list-style-type: none"> IEC EN60950-1
EMC/EMS	<ul style="list-style-type: none"> CE, FCC
EMI	<ul style="list-style-type: none"> FCC Part 15 Subpart B Class A, CE EN 55022 Class A
Stability Testing	<ul style="list-style-type: none"> EN 50155 / EN 60068-2-6(Vibration), EN 50155 / EN 60068-2-27(Shock), EN 50155 / EN 60068-2-32(Free Fall)

Dimension



Application



Ordering information

RP-IMC621SC	2-P 10/100 Base-TX PoE to 100Base-FX Industrial Media Converter, Multi-mode, SC-2km
RP-IMC621C10	2-P 10/100 Base-TX PoE to 100Base-FX Industrial Media Converter, Single-mode, SC-10km
RP-IMC621ST	2-P 10/100 Base-TX PoE to 100Base-FX Industrial Media Converter, Multi-mode, ST-2km