RP-IMC621 series

2-P 10/100 Base-TX to 100Base-SX Industrial Media Converter with 1-port 802.3at PoE

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 30W. 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 operating temperature range from -40 to 75 Degree 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 1 port PSE, 30Watts power for IEEE802.3af/at
- Reverse polarity auto correction
- Surge protection diodes on power input
- ESD protection diodes on RJ-45 port
- Provides increased Noise Immunity
- Input voltage range from 44~56 VDC
- Extended environmental specification -40°C to 75°C

Specification

Standards	• 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 for POE • IEEE802.3at for POE+
Switch Architecture	• Back-plane (Switching Fabric): 600Mbps
Data Processing	• Store and Forward
Flow Control	• IEEE 802.3x Flow Control and Back Pressure
MAC Table Size	• 1K
Interface	• 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: 100 Base-FX SC MM Distance 2km 100 Base-FX SC SM Distance 30km 100 Base-FX ST Distance 2km 100 Base-FX SC MM WDM 1310nm Distance 15km 100 Base-FX SC MM WDM 1550nm Distance 15km
LED indicators	• PW (Power): Green=power connected Yellow = alarm being triggered, OFF=normal state • TX LEDs: Green=Link, Flash = TX/RX, Yellow=POE detected, Flash=power overload • Optical Fiber – Green=Link, Flash =TX/RX
DIP Switch	• Dip 1 – activate port 1 with smart link to alarm relay • Dip 2 – activate port 2 with smart link to alarm relay • Dip 3 – activate port 3 with smart link to alarm relay • Dip 4 – Link Fault Pass-Through (LFP) Enable
Power protection	• Surge protection diodes on power input • Reverse polarity protection • Overload current protection
Power Input Power Consumption	• Max power consumption 3 Watts without POE • Max POE 30Watts at 56VDC input
Power Input	• VDC 44~56V
Removable Terminal Block	• Provide 4 pin terminal block, V+, V-, and Relay • Wire range: 0.34mm^2 to 2.5mm^2 • 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	• 24VDC @ 1A • Normal state – open, Relay LED OFF • Triggered states – short, Relay LED ON
Environment	• Operating Temperature: -40°C~75°C

	• Operating Humidity: 5% to 95% (Non-condensing) • Storage Temperature: -40°C ~85°C
Housing	• Rugged Metal ,IP30 Protection
Dimension	• 103.5mmx32mmx81.5mm (LxWxD)
Installation mounting	• DIN Rail mounted, Wall Mounted
Safety	• IEC EN60950-1
EMC/EMS	• CE, FCC
EMI	• FCC Part 15 Subpart B Class A, CE EN 55022 Class A
Vibration	• EN 50155 / EN 60068-2-6
Shock	• EN 50155 / EN 60068-2-27
Free Fall	• EN 50155 / EN 60068-2-32

Ordering information

RP-IMC621SC	2-P 10/100 Base-TX to 100Base-SX Industrial Media Converter, with 1-port 802.3at PoE, Multi-mode,SC-2km
RP-IMC621C30	2-P 10/100 Base-TX to 100Base-SX Industrial Media Converter, with 1-port 802.3at PoE, Single-mode,SC-30km
RP-IMC621ST	2-P 10/100 Base-TX to 100Base-SX Industrial Media Converter, with 1-port 802.3at PoE, Multi-mode,ST-2km
RP-IMC621-15A	2-P 10/100 Base-TX to 100Base-SX Industrial Media Converter, with 1-port 802.3at PoE, Single-mode, WDM-15km, A type/1310nm
RP-IMC621-15B	2-P 10/100 Base-TX to 100Base-SX Industrial Media Converter, with 1-port 802.3at PoE, Single-mode, WDM-15km, B type/1550nm

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