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FR-7N3101
1x10/100/1000Base-TX + 1x1000Base-FX SFP

FR-7N3101 is a new generation Industrial Gigabit Media Converter with 1Port 10/100/1000Base-TX and 1Port 1000Base-FX Fast SFP that provide stable and reliable Ethernet transmission offered by Fiberroad, with high quality design and reliability. It is positioning in the broadband network intervention market, to offer and realize Ethernet data exchange, convergence and long-distance optical transmission with efficient bandwidth and reliable fiber optic network solutions for users. The Industrial Gigabit Media Converter complies with various characteristics such as mini size, no fan, low power consumption, high reliability and stability, and easy to maintain.

FR-7N3101 can offer redundant mechanisms for critical applications that need always-on connections. It can also operate either at standard operating temperature range -40 to 75°C. Housed in rugged DIN rail or wall mountable IP40 enclosures, these switches are perfect choices for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

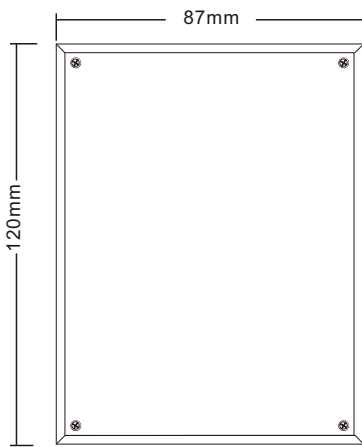| Buffer	DIN Rail	Redundant
1M	IP40	

Features

- 1x10/100/1000Base-TX, 1x1000Base-FX SFP
- Support Auto-MDIX, and full/half duplex self-negotiation mode
- Provide SC/FC/ST/LC interface fiber port, support single/dual fiber transmission
- Support 10K bytes giant frame, compatible with various extension protocol
- 8K MAC address table
- Support IEEE802.3az energy efficient Ethernet technology
- Support IPv6 Protocol
- Electric 4KV surge protection, easy to use in outdoor environment
- Complete status indicator, working state at a glance
- Power input polarity protection design, no worry about wrong operation
- Metal case, no fan design
- Installation method: DIN trail /Wall mounting
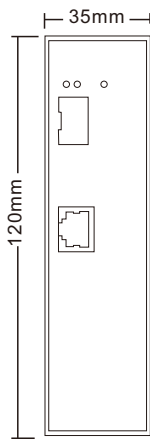
Specification

Physical Port

RJ45 port and speed	1x10/100/1000Base-TX
Fiber port and speed	1x1000Base-FX SFP

Parameters

Ethernet standards	IEEE802.3 IEEE802.3u IEEE802.3z IEEE802.3ab IEEE802.3x IEEE802.3az IEEE802.3Qad IEEE802.3ah IEEE802.1X IEEE802.1Q IEEE1588
Packet buffer	1Mbits
Maximum packet length	Up to 10K
MAC address table	8K
Transmission mode	Store and Forward(full/half duplex mode)
Exchange property	Delay time: < 7μs Backplane bandwidth: 1Gbps

LED Indicator

Power	Connect-always
RJ45	Link/Act: connect-always; data exchange-twinkle Speed light: 100Mbps-always; 10Mbps-twinkle
Fiber	Link/Act: connect-always; data exchange-twinkle

Power Information

Power access mode	Phoenix terminal, DC seat
Redundant power input	DC 9-56V
Overload protection	Yes
Power reverse	Support
Power consumption	Full-load<15W

Physical Property

Protection grade	Ip40 aluminum case
Cooling mode	Natural cooling, no fan design
Dimensions	120mm x 87mm x 35mm (L x W x H)
Installation mode	DIN trail/wall-mountable
Net Weight	350g

Working Environment

Operating Temperature	-40°C~75°C
Operating Humidity	5%~90% non-condensing
Storage Temperature	-40°C~85°C

Warranty

MTBF	500,000 hours
Defects Liability Period	3 year warranty, lifetime technical support

Certification Standard

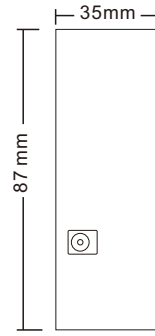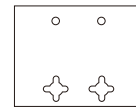|	
EMI	FCC Part15 Subpart B Class A,EN 55022 Class A
EMS	EN61000-4-2(ESD), EN61000-4-3(RS), EN61000-4-4(EFT), EN61000-4-5(Surge), EN61000-4-6(CS), EN61000-4-8, EN61000-4-11
Collision	IEC60068-2-27
Drop	IEC60068-2-32
Vibration	IEC60068-2-6
Safety grade	EN60950-1

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Dimensions

87mm

120mm

Side View

35mm

120mm

Front View

35mm

87 mm

Rear View
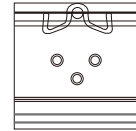
Wall-Mount Kit View

DIN-Rail Kit View
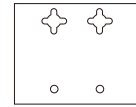
Wall-Mount Kit View

Application

9-56V

**Wide
Power Input Range
(24/48VDC)**

DC Boost & Regulate

Media Converter

PoE 48V optional

IP Camera

WIreless AP

Order Information

Model Number	Port Description
FR-7N3101	Gigabit Industrial Media Converter, Unmanaged, 1x10/100/1000Base-TX + 1x1000Base-FX SFP
FR-7N1101	Fast Ethernet Industrial Media Converter, Unmanaged, 1x10/100Base-TX + 1x100Base-FX SFP

*Fiber port can add 1*9 module

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