DIREKTRONIK

20127767 | Industrial 10G PoE+ Media Converter

DATA SHEET

Mini Industrial 10G/5G/2.5G/1G/100BASE-X SFP+ to 10/100/1G/2.5G/5G/10GBASE-T 802.3at PoE+ Media Converter

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Features

- 1 x 10/100/1G/2.5G/5G/10GBASE-T RJ45 with IEEE 802.3at PoE+ injector function
- 1 x 10G/5G/2.5G/1G/100BASE-X SFP+ slot interface
- Cut-Through / Pass-Through Mode
- Support IEEE802.3az energy efficient Ethernet technology
- Extensive LED indicators for network diagnostics
- 48-57VDC power input
- Supports 6000 VDC Ethernet ESD protection
- Power input polarity protection design, no worry about wrong operation
- Supports DIN-Rail & Wall-mount installation
- Environmentally hardened -40°C to 80°C operating temperature



Overview

20127767 is a mini industrial 10G PoE+ media converter providing non-blocking wire-speed performance and great flexibility for 10 Gigabit Ethernet extension in harsh industrial environment. It is equipped with one 10/100/1G/2.5G/5G/10G 802.3at PoE+ copper port and one 10G/5G/2.5G/1G/100BASE-X SFP+ fiber optic port delivered in an IP40 rugged but compact-sized case with redundant power system. Complying with the IEEE 802.3at Power over Ethernet Plus (PoE+) standard, the **20127767** forwards 10Gbps speed Ethernet data transmission and provides a maximum of 30-watt power output over an additional 100m UTP cable to a 802.3af/at PoE PD (powered device) installed in a remote area where sufficient and reliable power input is required. Users can easily upgrade their current networks without the need of software configuration.

The 10GBASE-X SFP+ fiber-optic interfaces support multiple speeds—10G/5G/2.5G/1G/100BASE-X —allowing administrators to select the appropriate SFP/SFP+ transceiver based on distance and speed requirements. The device also supports flexible conversion between multi-mode and single-mode fiber, extending transmission distances from 300 meters to 80 kilometers using 10GBASE-SR or 10GBASE-LR modules.

The **20127767** is ideal for wide applications from copper to fiber media conversion wherever 10Gigabit bandwidth is required in climatically demanding environments with wide temperature ranging from -40 to 80 degrees C. The Ethernet port supports full-duplex mode. Users can use different type of SFP+ modules (single-mode/multi-mode fiber, 1/2 core) as needed.

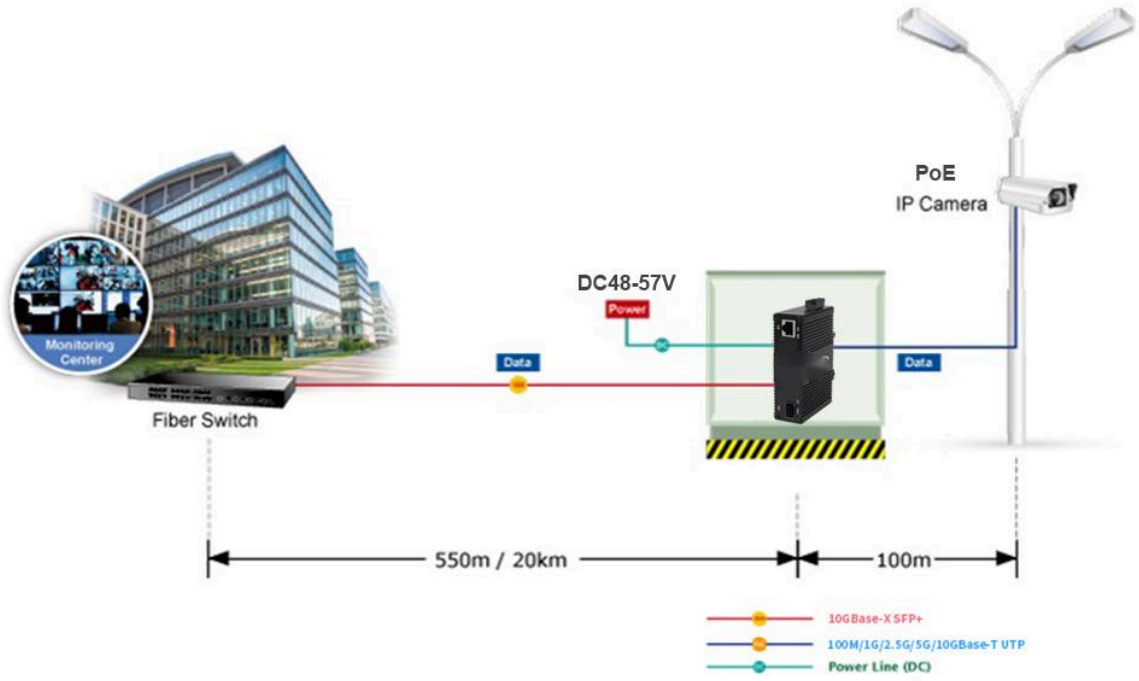
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Application



Specifications

Physical Port	
RJ45 port and speed	1 x 10000/5000/2500/1000/100BASE-T RJ45
Fiber port and speed	1 × 10GBASE-SR/LR SFP+ Backward compatible with 100/1G/2.5G/5GBASE-X SFP transceivers
Parameters	
Ethernet standards	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3an 10GBASE-T IEEE 802.3ae 10Gbps Ethernet IEEE 802.3x IEEE 802.3x full-duplex flow control IEEE 802.3az Energy Efficient Ethernet (EEE)
Transmission mode	Cut-Through / Pass-Through Mode
Latency	< 500ns
Bandwidth	20Gbps
Power over Ethernet	
PoE standard	IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus
POE Power Voltage	DC48V Max. output power 30W
POE RJ45 Pins	Positive: 4,5(+) and Negative: 7,8(-)

LED Indicator	
Power	Connect-always ON
PoE	PD Plug ON status
RJ45	Link/Act: connect-always; data exchange-blinking
Fiber	Link/Act: connect-always; data exchange-blinking
Power Information	
Power access mode	Phoenix terminal
Redundant power input	DC48-57V
Overload protection	Yes
Power reverse	Support
Power consumption	5W Max. (PoE not activated)
Physical Property	
Protection grade	IP40 aluminum housing
Cooling mode	Natural cooling, no fan design
Dimensions (L x W x H)	100mm x 70mm x 30mm
Installation mode	DIN Rail or Wall-Mount
Weight	280g
Working Environment	
Operating Temperature	-40℃ ~ +80℃
Operating Humidity	5%~90% non-condensing
Storage Temperature	-40℃ ~ +85℃
Warranty	
MTBF	500,000 hours
Standard Warranty	5 years and 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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Order Information

Model	Description
20127767	Mini Industrial 10G/5G/2.5G/1G/100BASE-X SFP+ to 10/100/1G/2.5G/5G/10GBASE-T 802.3at PoE+ Media Converter
SFP Options	► SFP+ option. Please select your SFP+ on our SFP+ Options Page (Industrial SFP).
	► SFP+ module is to be purchased separately.
Mounting Options	► Default DIN-Rail Bracket installed; Wall Mount Bracket is included.
Power Options	► DIN-Rail Power Supply. Open Wire for Terminal Block.
	► Power Supply is to be purchased separately.

Dimension (unit: mm/inch)

