

PG2-1204-SFP2-10GSFP2 Series

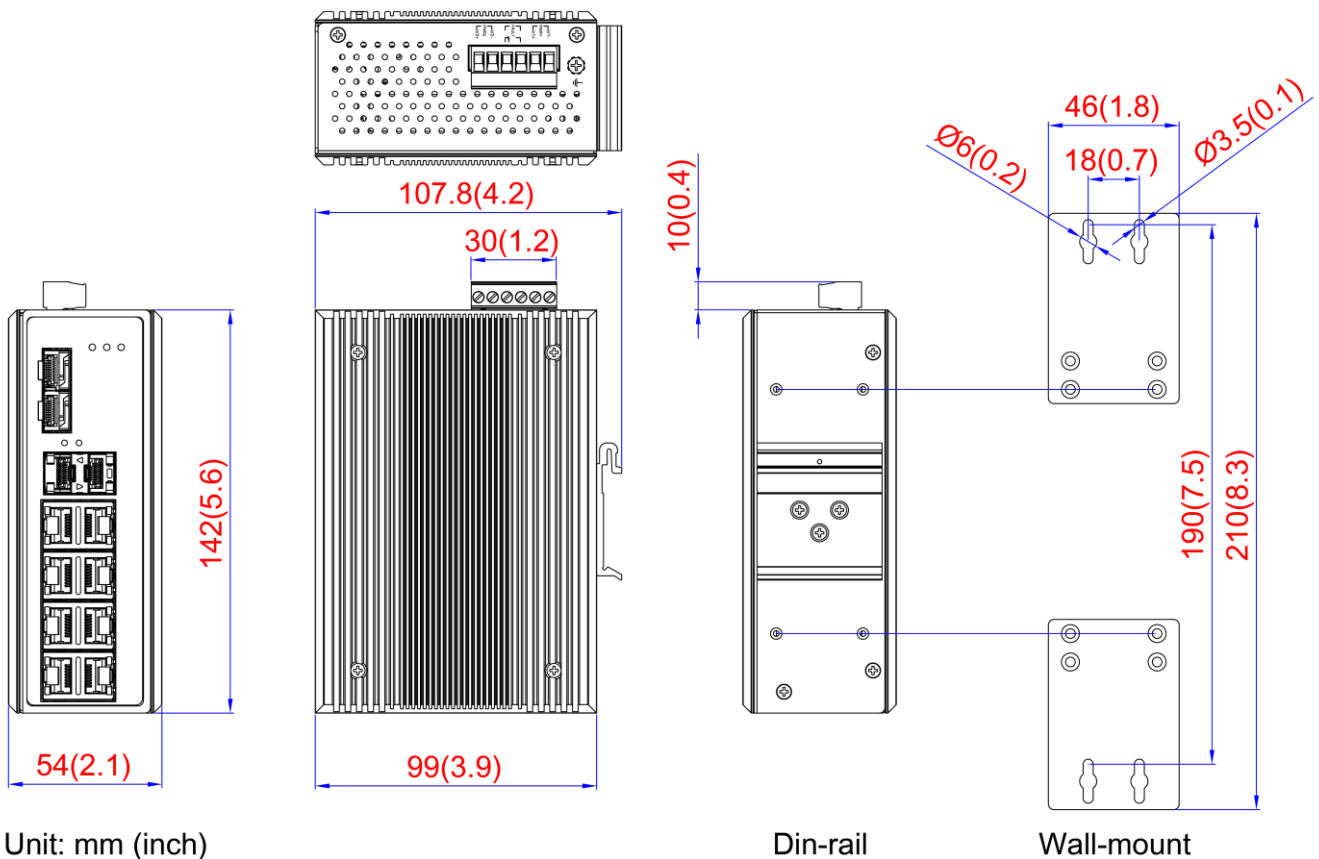
12-Port Industrial Gigabit PoE+ Ethernet Switch
 -8*10/100/1000Base-T(X) with 8*PoE-PSE (30W/Port) + 2*10GbE SFP+ slots + 2*1000Base-(F)X SFP Slots



- 8-port 10/100/1000Base-T(X) Ethernet with IEEE 802.3af/at compliant PoE, 30W/port
- 2-port 10GbE SFP+ slots
- 2-port 1000Base-(F)X SFP slots
- Redundant power inputs design
- Built-in Power Booster Design for PoE/PoE+ Output
- Built-in Relay Output Warning for Power Failure
- IP30 Rugged Metal Case Design
- Operating temperature range
 - STD: -40°C ~ 65°C



Dimension



Specification

Technology

Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3ae 10 Gigabit Ethernet IEEE 802.3af/at Power over Ethernet IEEE 802.3x Flow Control
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Processing Type	Store and Forward
Protocol	CSMA/CD
Flow Control	IEEE 802.3x flow control, back pressure flow control

Switch Properties

Switching Fabric (Back-Plane)	60Gbps
Memory Buffer	8M bits
MAC Table Size	16K
Jumbo Frame	9.6Kbytes
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet Port 14,880,000pps for 10 Gigabit Ethernet Port

Interface

RJ45 Ports	8* 10/100/1000 Base-T(X) Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDI-X
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (End-span, Mode A)
Fiber Port	2* 1000Base-(F)X SFP slots 2* 10GbE SFP+ slots
Wavelength	Depends on SFP modules
LED Indicators	System: Power 1, Power 2, Fault Ethernet ports: On-Link/Flash-data transmitting PoE: On-connected to PD devices SFP ports: Link/Active
Relay Contact	24 VDC, 1A resistive
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)

Power Requirements

Input Voltage	Dual 48-55VDC redundant power inputs
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max. 10.7W full loading
Max. PoE Power Budget	240W
PoE Power Output	30W max. per PoE port

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions (W x H x D)	54 x 142 x 99 mm (2.1 x 5.6 x 3.9 inch)
Weight	Unit weight: 1.144 kg (2.52 lb), Shipping weight: 1.424 kg (3.13 lb)
Mounting	DIN-Rail Mounting, Wall Mounting

Environmental Limits

Operating Temperature	STD: -40°C ~ 65°C (-40°F ~ 149°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2 Class A: IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Safety	UL61010-1, UL61010-2-201
Compliance	NEMA TS2 (ITS) (apply by request)
MTBF (Telcordia SR-332, Issue 3, GB, 25°C)	695,593 hrs.
Warranty	5 Years

NOTE: Due to continuous improvement, all product specifications are subject to change without further notice.

Packet Contents

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PG2-1204-SFP2-10GSFP2 Ethernet switch	1
Wall-mount installation kits	2
Quick installation guide (printed)	1

Comparison Table

Model Name	10/100/1000T(X) PoE+	1000(F)X SFP	10GbE SFP+	Power Inputs	PoE Max. Power Budget	Operating Temperature
PG2-1204-SFP2-10GSFP2	8	2	2	48-55VDC	240W	-40°C ~ 65°C

Ordering Information

PG2-1204-SFP2-10GSFP2	12-Port Industrial Gigabit PoE+ Ethernet Switch -8*10/100/1000Base-T(X) with 8*PoE-PSE (30W/Port) + 2*10GbE SFP+ slots + 2*1000Base-(F)X SFP Slots, 48-55VDC, -40°C ~ 65°C
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Optional Accessories - Power Supply Series

75W Power Supply Series

EDR-75-48	75W Industrial DIN-Rail Power Supply, 48VDC/1.6A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 60°C
NDR-75-48	75W Industrial DIN-Rail Power Supply, 48VDC/1.6A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C

120W Power Supply Series

EDR-120-48	120W Industrial DIN-Rail Power Supply, 48VDC/2.5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 60°C
NDR-120-48	120W Industrial DIN-Rail Power Supply, 48VDC/2.5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C

240W Power Supply Series

NDR-240-48	240W Industrial DIN-Rail Power Supply w/ PFC, 48VDC/5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C
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480W Power Supply Series

NDR-480-48	480W Industrial DIN-Rail Power Supply w/ PFC, 48VDC/10A, Universal 90-264VAC/127-370VDC power input,
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OPTIONAL ACCESSORIES - SFP Transceiver Series

1Gbps Multi-mode SFP Transceiver Modules Series

SFP-GM00	1Gbps SFP Transceiver/LC, MMF, 550M, 850nm, 0°C ~ 70°C
SFP-GM00-T	1Gbps SFP Transceiver/LC, MMF, 550M, 850nm, -40°C ~ 85°C
SFP-GM02	1Gbps SFP Transceiver/LC, MMF, 2KM, 1310nm, 0°C ~ 70°C
SFP-GM02-T	1Gbps SFP Transceiver/LC, MMF, 2KM, 1310nm, -40°C ~ 85°C

1Gbps Single-mode SFP Transceiver Modules Series

SFP-GS10	1Gbps SFP Transceiver/LC, SMF, 10KM, 1310nm, 0°C ~ 70°C
SFP-GS10-T	1Gbps SFP Transceiver/LC, SMF, 10KM, 1310nm, -40°C ~ 85°C
SFP-GS10-WA	1Gbps BiDi SFP Transceiver/LC, SMF, 10KM, TX: 1310nm/RX: 1550nm, 0°C ~ 70°C
SFP-GS10-WA-T	1Gbps BiDi SFP Transceiver/LC, SMF, 10KM, TX: 1310nm/RX: 1550nm, -40°C ~ 85°C
SFP-GS10-WB	1Gbps BiDi SFP Transceiver/LC, SMF, 10KM, TX: 1550nm/RX: 1310nm, 0°C ~ 70°C
SFP-GS10-WB-T	1Gbps BiDi SFP Transceiver/LC, SMF, 10KM, TX: 1550nm/RX: 1310nm, -40°C ~ 85°C
SFP-GS20	1Gbps SFP Transceiver/LC, SMF, 20KM, 1310nm, 0°C ~ 70°C
SFP-GS20-T	1Gbps SFP Transceiver/LC, SMF, 20KM, 1310nm, -40°C ~ 85°C
SFP-GS40	1Gbps SFP Transceiver/LC, SMF, 40KM, 1310nm, 0°C ~ 70°C
SFP-GS40-T	1Gbps SFP Transceiver/LC, SMF, 40KM, 1310nm, -40°C ~ 85°C
SFP-GS40-WA	1Gbps BiDi SFP Transceiver/LC, SMF, 40KM, TX: 1310nm/RX: 1550nm, 0°C ~ 70°C
SFP-GS40-WB	1Gbps BiDi SFP Transceiver/LC, SMF, 40KM, TX: 1550nm/RX: 1310nm, 0°C ~ 70°C
SFP-GS60	1Gbps SFP Transceiver/LC, SMF, 60KM, 1550nm, 0°C ~ 70°C
SFP-GS60-T	1Gbps SFP Transceiver/LC, SMF, 60KM, 1550nm, -40°C ~ 85°C
SFP-GS60-WA	1Gbps BiDi SFP Transceiver/LC, SMF, 60KM, TX: 1310nm/RX: 1550nm, 0°C ~ 70°C
SFP-GS60-WB	1Gbps BiDi SFP Transceiver/LC, SMF, 60KM, TX: 1550nm/RX: 1310nm, 0°C ~ 70°C
SFP-GS80	1Gbps SFP Transceiver/LC, SMF, 80KM, 1550nm, 0°C ~ 70°C
SFP-GS80-T	1Gbps SFP Transceiver/LC, SMF, 80KM, 1550nm, -40°C ~ 85°C
SFP-GSH2	1Gbps SFP Transceiver/LC, SMF, 120KM, 1550nm, 0°C ~ 70°C
SFP-GSH2-T	1Gbps SFP Transceiver/LC, SMF, 120KM, 1550nm, -40°C ~ 85°C

10Gbps Multi-mode SFP Transceiver Modules Series

SFP-XM00	10Gbps SFP+ Transceiver/LC, MMF, 300M, 850nm, 0°C ~ 70°C
SFP-XM00-T	10Gbps SFP+ Transceiver/LC, MMF, 300M, 850nm, -40°C ~ 85°C

10Gbps Single-mode SFP Transceiver Modules Series

SFP-XS10	10Gbps SFP+ Transceiver/LC, SMF, 10KM, 1310nm, 0°C ~ 70°C
SFP-XS10-T	10Gbps SFP+ Transceiver/LC, SMF, 10KM, 1310nm, -40°C ~ 85°C

Copper SFP Transceiver Modules Series

SFP-GC00-SG	SFP to 10/100/1000Base-T(X) copper Module, 0°C ~ 70°C
SFP-GC00-SE	SFP to 1000Base-T copper Module, 0°C ~ 70°C