

PG2-1002-10GSFP-24 Series

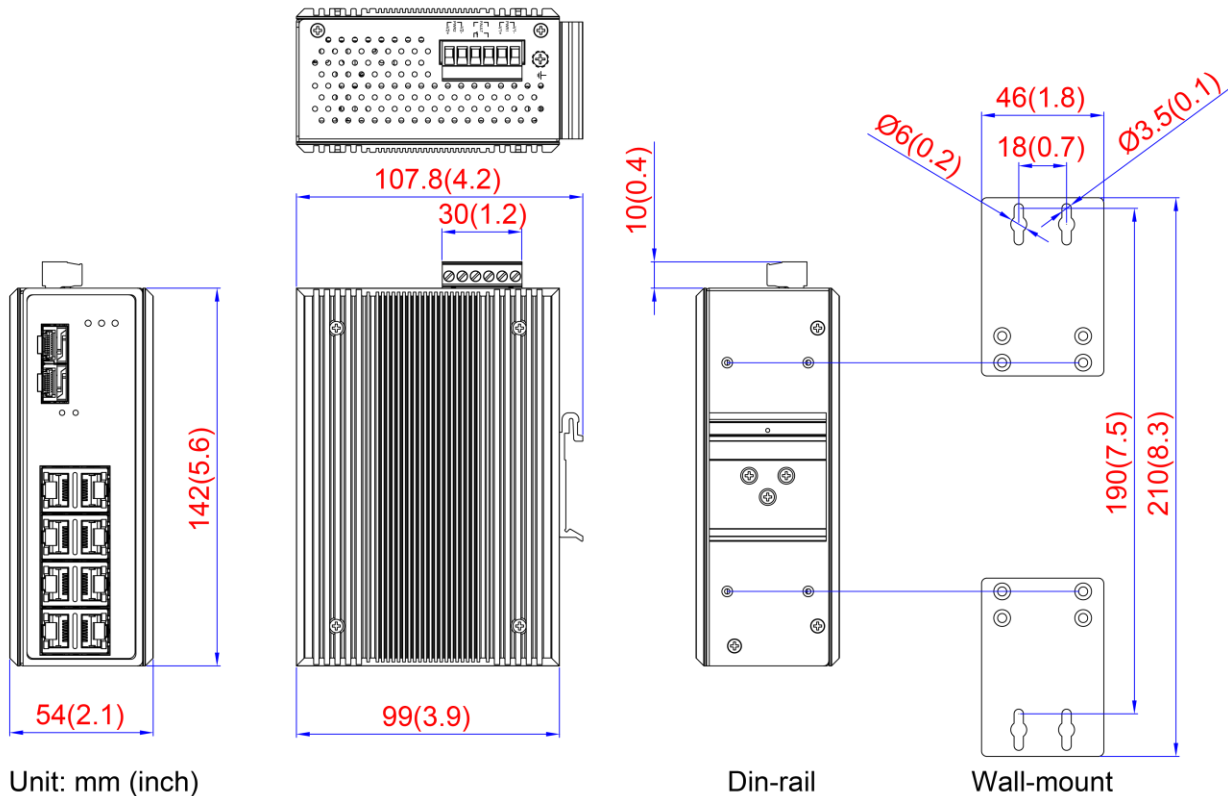
10-Port Industrial Gigabit PoE+ Ethernet Switch
 -8*10/100/1000Base-TX with PoE-PSE(30W/Port) + 2*10GbE SFP+ Slot



- 8-port 10/100/1000Base-T(X) Ethernet with IEEE 802.3af/at compliant PoE, 30W/port
- 2-port 10GbE 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

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

Switch Properties

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| Switching Fabric (Back-Plane) | 56Gbps |
| Memory Buffer | 8Mbits |
| Jumbo Frame | 9.6Kbytes |
| MAC Table Size | 16K |
| 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

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| RJ45 Ports | 8*10/100/1000Base-TX with PoE-PSE(30W/Port) 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*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: 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) 1000Base-TX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m) |

Power Requirements

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| Input Voltage | Dual 12-55VDC 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. 10.2W full loading |
| Max. PoE Power Budget | 90W@12VDC, 180W@24VDC, 240W@36-55VDC |
| PoE Power Output | 30W max. per PoE port |

Mechanical Characteristics

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| 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: 1.138 kg (2.5 lb), Shipping weight: 1.418 kg (3.12 lb) |
| Mounting | DIN-Rail Mounting, Wall Mounting |

Environmental Limits

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| 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

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| EMI | FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A |
| EMS | CE EN55035/EN61000-6-2 Class A: |

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| | 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) | 696,591 hrs. |
| Warranty | 5 Years |

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

Packet Contents

| | pcs |
|--------------------------------------|-----|
| PG2-1002-10GSFP(-24) Ethernet switch | 1 |
| Wall-mount installation kits | 2 |
| Quick installation guide (printed) | 1 |

Comparison Table

| Model Name | 10/100/1000 T(X)PoE+ | 10GbE SFP+ | Power Inputs | PoE Max. Power Budget | Operating Temperature |
|--------------------|-------------------------|------------|--------------|--|-----------------------|
| PG2-1002-10GSFP-24 | 8 | 2 | 12-55VDC | 90W@12VDC 180W@24VDC 240W@36-55VDC | -40°C ~ 65°C |

Ordering Information

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| PG2-1002-10GSFP-24 | 10-Port Industrial Gigabit PoE+ Ethernet Switch - 8*10/100/1000Tx with PoE-PSE (30W/Port) + 2*10GbE SFP+ Slot, 12-55VDC, -40°C ~ 65°C |
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Optional Accessories - Power Supply Series

30W Power Supply Series

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| HDR-30-24 | 36W Industrial DIN-Rail Power Supply, 24VDC/1.5A, Universal 85-264VAC/120-370VDC power input, Plastic, -30°C ~ 70°C |
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60W Power Supply Series

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| HDR-60-24 | 60W Industrial DIN-Rail Power Supply, 24VDC/2.5A, Universal 88-264VAC/124-370VDC power input, Plastic, -30°C ~ 70°C |
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| MDR-60-24 | 60W Industrial DIN-Rail Power Supply, 24VDC/2.5A, Universal 85-264VAC/120-370VDC power input, Plastic, -20°C ~ 70°C |
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75W Power Supply Series

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| EDR-75-48 | 75W Industrial DIN-Rail Power Supply, 48VDC/1.6A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 60°C |
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| NDR-75-48 | 75W Industrial DIN-Rail Power Supply, 48VDC/1.6A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C |
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120W Power Supply Series

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| EDR-120-48 | 120W Industrial DIN-Rail Power Supply, 48VDC/2.5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 60°C |
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| NDR-120-24 | 120W Industrial DIN-Rail Power Supply, 24VDC/5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C |
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| NDR-120-48 | 120W Industrial DIN-Rail Power Supply, 48VDC/2.5A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C |
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240W Power Supply Series

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| 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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| SDR-240-24 | 240W Industrial DIN-Rail Power Supply w/ PFC, 24VDC/10A, Universal 88-264VAC/124-370VDC power input, Metal, -25°C ~ 70°C |
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480W Power Supply Series

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| NDR-480-48 | 480W Industrial DIN-Rail Power Supply w/ PFC, 48VDC/10A, Universal 90-264VAC/127-370VDC power input, Metal, -20°C ~ 70°C |
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OPTIONAL ACCESSORIES - SFP Transceiver Series

10Gbps Multi-mode SFP Transceiver Modules Series

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

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