

# PGU-1002-SFP

10-Port Industrial Gigabit PoE+ Ethernet Switch

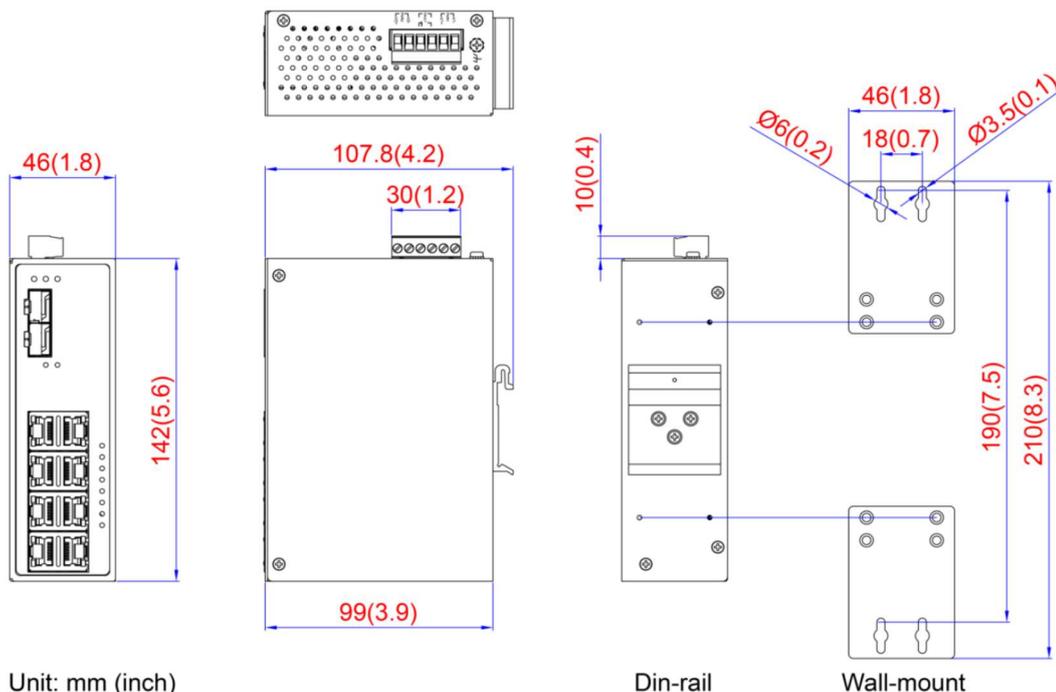
8\*10/100/1000Tx with PoE-PSE (30W/Port) + 2\*100/1000 SFP Slot



- 8-port 10/100/1000Tx Ethernet with IEEE 802.3at Compliant PoE+
- 2-port 100/1000 SFP Slot
- Redundant Power Input Design
- Built-in Relay Output Warning for Power Failure
- IP30 Rugged Metal Case Design
- DIN-Rail Mounting, Wall Mounting
- Operating Temperature Range - STD: -10°C ~ 65°C, EOT: -40°C ~ 75°C



## Dimensions



## Ordering Information

|                   |  |
|-------------------|--|
| PGU-1002-SFP      | 10-Port Industrial Gigabit PoE+ Ethernet Switch<br>8*10/100/1000Tx with PoE-PSE (30W/Port) + 2*100/1000 SFP Slot, 48-55VDC, -10°C ~ 65°C |
| PGU-1002-SFP-T    | 10-Port Industrial Gigabit PoE+ Ethernet Switch<br>8*10/100/1000Tx with PoE-PSE (30W/Port) + 2*100/1000 SFP Slot, 48-55VDC, -40°C ~ 75°C |
| PGU-1002-SFP-24   | 10-Port Industrial Gigabit PoE+ Ethernet Switch<br>8*10/100/1000Tx with PoE-PSE (30W/Port) + 2*100/1000 SFP Slot, 12-55VDC, -10°C ~ 65°C |
| PGU-1002-SFP-24-T | 10-Port Industrial Gigabit PoE+ Ethernet Switch<br>8*10/100/1000Tx with PoE-PSE (30W/Port) + 2*100/1000 SFP Slot, 12-55VDC, -40°C ~ 75°C |

## Technology

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

## Switch Properties

|                               |  |
|-------------------------------|--|
| Back-Plane (Switching Fabric) | 20 Gbps  |
| Memory Buffer                 | 4 Mbits  |
| Jumbo Frame                   | 9.6 Kbytes   |
| MAC Table Size                | 8K   |
| Transfer Rate                 | 14,880pps for Ethernet Port, 148,800pps for Fast Eth., 1,488,000pps for Gigabit Eth. |

## Interface

|                |  |
|----------------|--|
| RJ45 Ports     | 8*10/100/1000 Base-T(X) with PoE+, Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDI-X  |
| PoE Pin Out    | V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)  |
| Fiber Port     | 2*100/1000 SFP slots   |
| Wavelength     | Depends on SFP modules   |
| LED Indicators | System: Power 1, Power 2, Fault; Ethernet ports: On-Link/Flash-data transmitting; SFP: Link/Active; PoE: On-connected to PD devices  |
| 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)<br>100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)<br>1000Base-TX: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m) |

## Power Requirements

|                             |   |
|-----------------------------|---|
| Input Voltage               | PGU-1002-SFP: Dual 48-55VDC redundant power inputs<br>PGU-1002-SFP-24: 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. 12 W full loading  |
| PoE Power Output            | 30 W max. per PoE port  |
| Max. PoE Power Budget       | PGU-1002-SFP: 200W/48VDC, 240W/55VDC,<br>PGU-1002-SFP-24: 60W/12VDC, 200W/36-55VDC                          |

## Mechanical Characteristics

|                        |   |
|------------------------|---|
| Housing                | Metal, IP30 protection  |
| Dimensions (W x H x D) | 46 x 142 x 99 mm (1.81 x 5.59 x 3.9 inch)   |
| Weight                 | PGU-1002-SFP: Unit weight: 0.788kg ( 1.74lb), Shipping weight: 0.97kg ( 2.14lb)<br>PGU-1002-SFP-24: Unit weight: 0.856kg ( 1.89lb), Shipping weight: 1.04kg ( 2.29lb) |
| Mounting               | DIN-Rail Mounting, Wall Mounting  |

## Environmental Limits

|                           |   |
|---------------------------|---|
| Operating Temperature     | STD: -10°C ~ 65°C (14°C ~ 149°F), EOT: -40°C ~ 75°C (-40°C ~ 167°F) |
| Storage Temperature       | -40°C ~ 85°C (-40°C ~ 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, Shock, Vibration | IEC60068-2-32, IEC60068-2-27, IEC60068-2-6  |
| Green                       | RoHS Compliant  |
| CE                          | Yes   |
| UL                          | UL61010-1, UL61010-2-201  |