

OPT-GY1005 Industrial Ethernet Switch

5*10/100Base-Tx RoHS Compliant







>>Description

The OPT-GY1005 series are Optone new ultra low power consumption Green Ethernet series, its full load power consumption is as low as 2.16 watts. The OPT-GY1005 switches supports a wide operating temperature range from -40°C to 85°C. All models have IP40 protection class and meet EMC industrial level 4 requirements.

OPT-GY1005 series support IEEE 802.3 and IEEE802.3u with 10/100M full/half-duplex, MDI/MDI-X auto-sensing. The OPT-GY1005 switches provide $12{\sim}48$ VDC power supply. These switches are specially designed for harsh industrial environments certified by UL508 and UL Class 1 Div 2 certifications.

OPT-GY1005 is a "green", embedded industrial Ethernet module with low-power consumption. It is applicable to wind power, subway PIS, power SCADA, sewage treatment, metallurgy, intelligent transportation, rail transit, and many other industries.OPT-GY1005 Embedded Ethernet Switching Module can be directly installed in the target device.

>>Main Features

- Green Ethernet solution with ultra low power consumption design
- Both standard and wide operating temperature
- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3x auto-negotiation
- · Supports auto MDI/MDIX function
- Status LED for easy monitoring of device status
- Support max forwarding packet length 1552/1536 bytes option
- IP40 protection class
- FCC Class A & CE approved





>>Specifications

Interface

• 5 x Ethernet port (RJ45) 10/100Base-Tx

Ethernet Port

- Standard: IEEE802.3, IEEE802.3u, IEEE802.3x
- Available speed: force 10Mbps, force 100Mbps and auto-detective 10/100Mbps Full-Duplex and Half-Duplex auto-negotiation
- Connectors: RJ-45 Connector; MDI/MDI-X connection auto-sensing

Switch Properties

• MAC Table: 2K

Packet Buffer: 1MbitSwitching Delay: <5μs

LED Indicators

• Power, Status, Speed, TX Link/Act

Power Requirement

Input: 12VDC~48VDCConsumption: 3.5W

• Overload Protection: Support

Reverse Connection Protection: SupportRedundancy Protection: Support

Physical Characteristics

Housing: Metal enclosureProtection Class: IP40

• Dimensions: 36 x 120 x 103mm

• Weight: 0.4kg

• Installation: DIN-Rail or Panel mounting

Environmental Limits

• Operating Temperature: -40°C to 85°C

• Storage Temperature: -40°C to 85°C

• Operating Humidity: 10% to 95% RH (non-condensing)

• Storage Humidity: 5% to 95% RH (non-condensing)

Agency Approvals

• FCC Part 15 of Class A & CE approved

Industrial Standard

• EMI: FCC/CE/LVD/EMC

• EMS:

IEC61000-4-2 (ESD): $\pm 8kV$ (contact), $\pm 15kV$ (air)

IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)

IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM;

Data Port: ±2kV

IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V

(150kHz-80MHz)

IEC61000-4-16 (Common mode conduction): 30V (cont.),

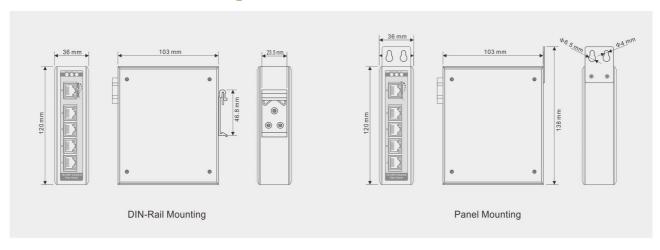
300V (1s)

Shock: IEC 60068-2-27Free Fall: IEC 60068-2-32Vibration: IEC 60068-2-6

Warranty

• 5 years

>> Mechanical Drawing





>>Ordering Information

OPT-GY1005

5*10/100Base-Tx, RJ45, 100m

>>Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTONE before they become applicable to any particular order or contract. In accordance with the OPTONE policy of continuous improvement specifications may change without notice.

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