

Opal5GL

5G port full gigabit unmanaged DIN-Rail switches



» Overview

Opal5GL unmanaged 5-port switch is characterized by its full Gigabit interface, compact size, economical and plug-and-play design, generally used to connect the high bandwidth Ethernet in factory automation, petrochemical, ITS, and other applications. Opal5GL supports 1 Gigabit SFP/RJ45 optional port and 4 10/100/1000Base-TX RJ45 ports, redundant power inputs, built-in isolated power supply, metal housing with IP40 protection class, thus ensuring fast and reliable data transmission in harsh industrial environments. Opal5GL provides both standard (-10°C to 60°C) and wide (-40°C to 75°C) operating temperature range models to meet different applications.

» Key Features

Support 1 Gigabit SFP/RJ45 optional port and 4 10/100/1000Base-TX RJ45 ports

Built-in isolated power supply, Full load power consumption is as low as 4.3 W

Both standard and wide operating temperature models are available

Jumbo frame transmission function (up to 9KB)

EMC level 3

IP40 protection class

» Product Specifications

> Specifications

-Standard

IEEE 802.3i (10Base-T)

IEEE 802.3u (100Base-TX)

IEEE 802.3ab (1000Base-T)

IEEE 802.3z (1000Base-X)

IEEE 802.3x (Flow Control)

-Switch Properties

MAC Table: 4K

Packet Buffer: 1.5Mbit

Packet Forwarding Rate: 7.4 Mpps

Switching Delay: <5 μ s

Jumbo Frame Size: 9KB

-Interface

Gigabit Port:

1000Base-X, SFP slot

10/100/1000Base-T(X), RJ45 port

-LED

LEDs on Front Panel

Power LED: PWR1, PWR2

Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT (Fiber port)

-Power Requirements

Power Input: 12-48VDC/18-30VAC

Power Terminal: 4-pin 5.08mm-spacing plug-in terminal block

Power Consumption: 4.3W(1GX4GE), 4.1W(5GE)

Overload Protection: Support

Reverse Protection: Support

Redundancy Protection: Support

-Physical Characteristics

Housing: Metal

Cooling: Natural convection, fanless

Protection Class: IP40

Dimension: 31mm×114.5mm×94mm (W×H×D)

Weight: 0.3Kg

Mounting: DIN-Rail or Panel mounting

-Environmental Limits

Operating Temperature:

-10°C to +60°C(-E)

-40°C to +75°C

Storage Temperature: -40°C to +85°C

Ambient Relative Humidity: 5°C 95% (non-condensing)

-Quality Assurance

MTBF: 6810066 hrs

Warranty: 5 years

-Approvals

CE, FCC

UL61010, Class I Div 2

-Industry Standard

EMI:

FCC CFR47 Part 15, EN55032/CISPR22, Class A

EMS:

IEC61000-4-2(ESD): ±6kV (contact), ±8kV (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: ±1kV/DM, ±2kV/CM; Data Port: ±2kV

IEC61000-4-6(CS): 10V (150kHz–80MHz)

Machinery:

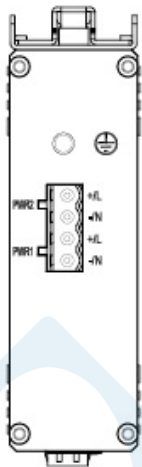
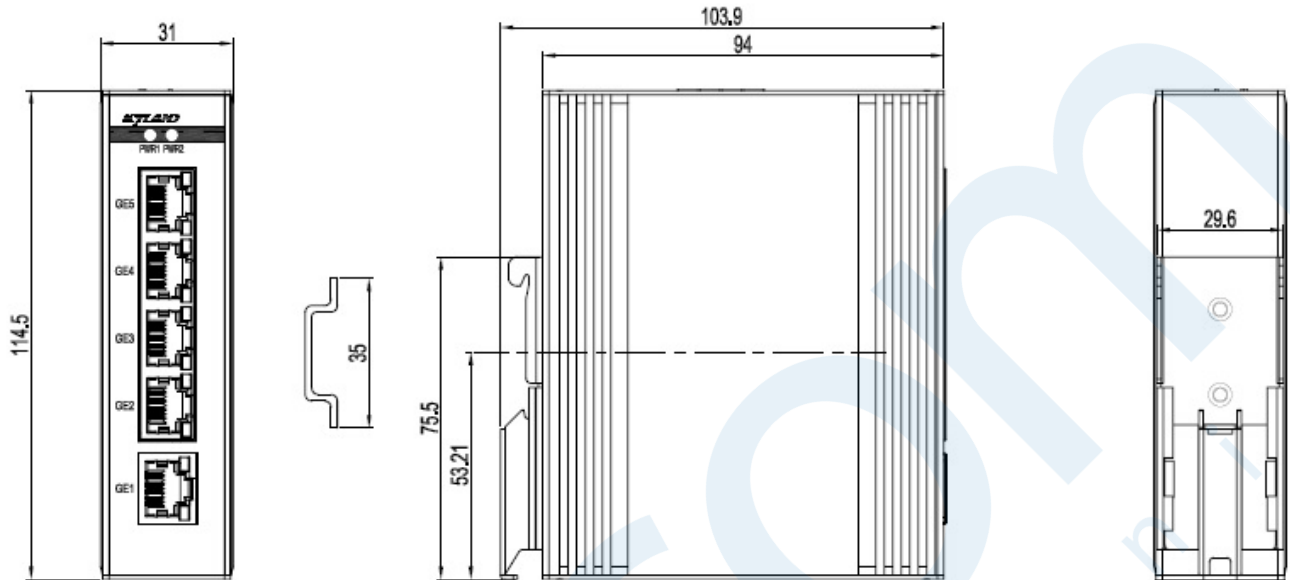
IEC60068-2-6 (Vibration)

IEC60068-2-27 (Shock)

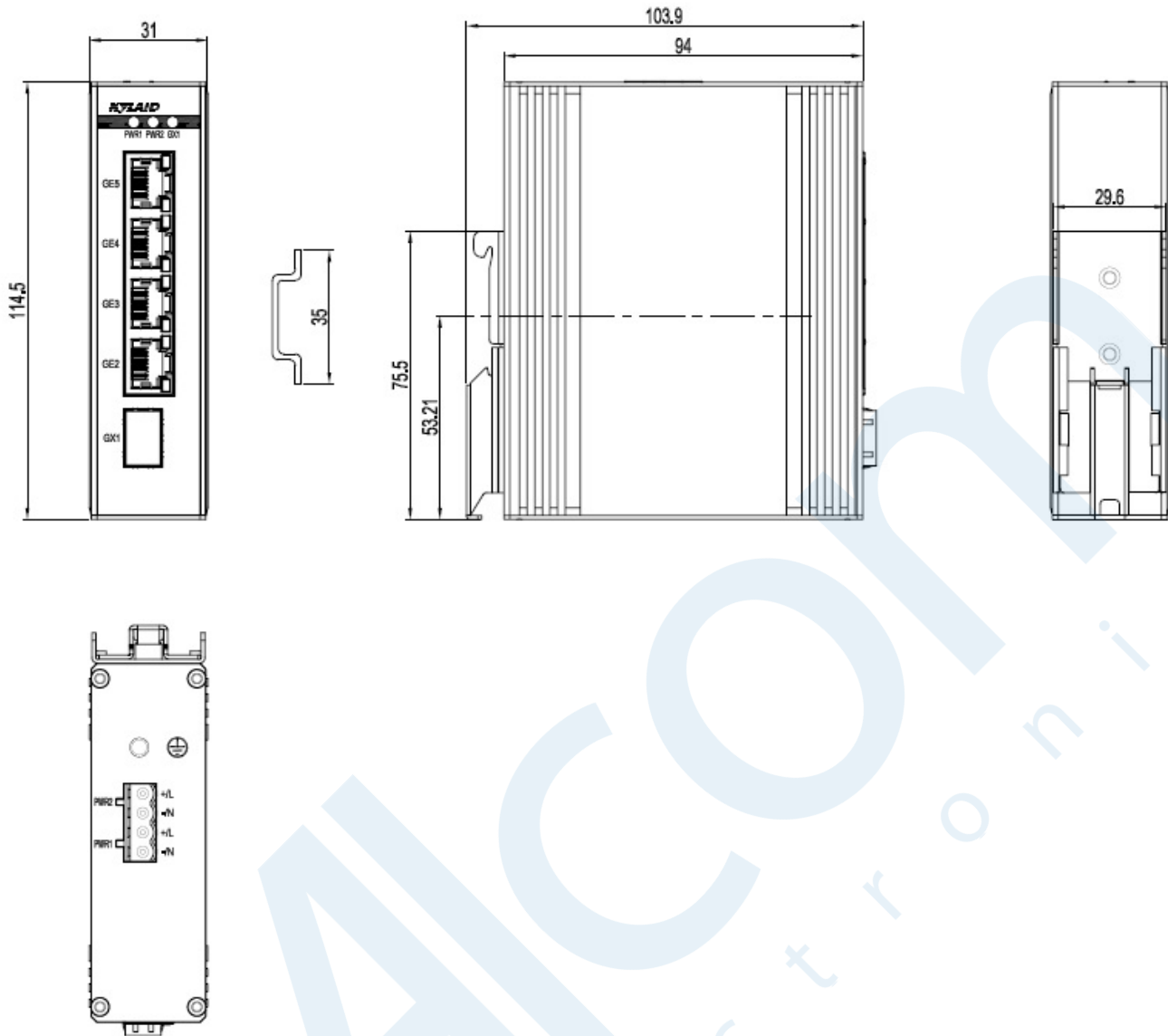
IEC60068-2-32 (Free Fall)

» Mechanical Drawing

Opal5GL-5GE:



Opal5GL-1GX4GE:



» Ordering Information

Opal5GL-X-Ports-PS1-PS2	
X	Operating temperature range
E	-10 to +60°C operating temperature
None	-40 to +75°C operating temperature
Ports	
1GX4GE	1 X 1000Base-X SFP slot, 4 X 10/100/1000Base-T(X) RJ45 ports
5GE	5 X 10/100/1000Base-T(X) RJ45 ports
PS1-PS2	
LV-LV	12-48VDC/18-30VAC, redundant power inputs
Accessories	
Gigabit SFP module	Please refer to the Gigabit SFP module ordering list
DT-BGAZ-01	Panel for Panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port

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