

KIEN1005G

5G Port Full Gigabit Unmanaged DIN-Rail Switches



- Green Ethernet solution with full load power consumption as low as 3.4W
- 5 Gigabit RJ45 ports
- EMC performance reaches industrial level 4
- IP40 protection class
- CE,FCC certificates



» Overview

The KIEN1005G full Gigabit series belong to Kyland ultra low power consumption Green Ethernet series, equipped with 5 Gigabit ports, plug and play, its full load power consumption is as low as 3.4 watts. The solid metal housing with IP40 protection class, strong vibration-resistant mounting clip for DIN-Rail installation, redundant power inputs, wide operating temperature range from -40°C to 85°C, and excellent EMC performance give the switches stable and reliable operating capability in the harsh industrial environments, and make them ideal for setting up high bandwidth Ethernet connections in power, factory automation, oil and gas and other industrial applications.

» Technical Specification

Technical Parameters

- Standard
- ▼ IEEE 802.3i (10Base-T)
 - ▼ IEEE 802.3u (100Base-TX)
 - ▼ IEEE 802.3ab(1000Base-T)

Switch Properties

MAC Table	1K
Packet Buffer	1Mbit
Packet Forwarding Rate	7.4Mpps
Switching Delay	<5μs

Interface

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

LEDs on Front Panel

- ▼ Power LED:PWR1, PWR2
- ▼ Interface LED:Link/ACT, Speed (RJ45 port)

Power Requirement

Power Input

- ▼ 24-48VDC
- ▼ 12-24VDC

Power Terminal

- ▼ 5-pin 5.08mm-spacing plug-in terminal block

Power Consumption 3.4W (full load),0.99W (no load)

Overload Protection	Support
Reverse Protection	Support
Redundancy Protection	Support

Physical Characteristics

Housing	Metal
Cooling	Natural convection, fanless
Protection Class	IP40
Dimension	30mm×115mm×91.5mm(W×H×D)
Weight	0.46Kg
Mounting	DIN-Rail or Panel Mounting

Environmental Limits

Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Ambient Relative Humidity	5-95% (non-condensing)

Warranty

MTBF	357,000 hrs
Warranty	5 years

Approvals

CE,FCC

Industrial Standards

EMI

▼ FCC CFR47 Part 15,EN55022/CISPR22,Class A

EMS

▼ IEC61000-4-2(ESD) ±8kV(contact),±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) 10V(150kHz–80MHz)

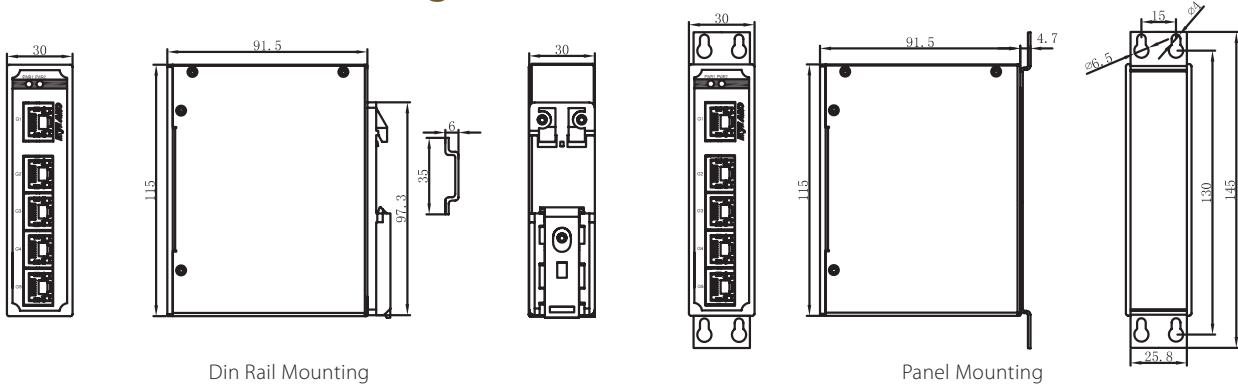
Machinery

▼ IEC60068-2-6 (Vibration)

▼ IEC60068-2-27 (Shock)

▼ IEC60068-2-32 (Free Fall)

Mechanical Drawing



Din Rail Mounting

Panel Mounting

Ordering Information

KIEN1005G-Ports-PS1-PS2

Ports

5GE 5×10/100/1000Base-T(X) RJ45 ports

PS

L2-L2 24-48VDC, redundant power inputs

L5-L5 12-24VDC, redundant power inputs

Accessories

Accessory Model

Description

DT-BGAZ-01

Panel for panel mounting

DT-FCZ-RJ45-01

Dustproof cover for RJ45 port