

KIEN1005G

5G Port Full Gigabit Unmanaged Din-Rail Switch



- Green Ethernet solution with ultra low power consumption design
- As low as 3.4 watts full load power consumption
- 5 10/100/1000Base-TX ports
- Redundant AC/DC power inputs with wide voltage range
- EMC performance reaches industrial level 4
- IP40 protection class
- UL508 (pending), Class 1 Div 2 (pending), CE, FCC certificates



Overview

The KIEN1005G is Kyland new full Gigabit unmanaged industrial Ethernet switch. It is also a new member of ultra low power consumption Green Ethernet series, its full load power consumption is as low as 3.4 watts. The KIEN1005G supports a wide operating temperature range from -40 to 85°C. It provides IP40 protection class and meets EMC industrial level 4 requirements.

The KIEN1005G switch provides 12VDC (9-36VDC), 24VAC/DC (13-50VAC, 18-72VDC) redundant power inputs. This switch is specially designed for harsh industrial environments certified by UL508 and UL Class 1 Div 2 certifications and it is your best option for economical industrial Gigabit Ethernet solution.

Technical Specifications

Standard

IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z

Switch Properties

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

Interface

Gigabit Ethernet Ports: 5 10/100/1000Base-TX RJ45 ports

LED

LEDs on Front Panel:
Power LED: PWR1, PWR2
Interface LED: Link/ACT, Speed (RJ45 port)

Transmission Distance

Twisted Pair: 100m (Standard CAT5, CAT5e network cable)

Power Requirements

Power Input: 12VDC (9-36VDC), 24VAC/DC (18-50VAC/18-72VDC)
Power Terminal: 5-pin 5.08mm-spacing plug-in terminal block
Power Consumption: 3.4W (full load)

Overload Protection: Support
Reverse Connection Protection: Support
Redundancy Protection: Support

Physical Characteristics

Housing: Metal, fanless
Protection Class: IP40
Dimensions (W×H×D): 30×115×91.5 mm (1.18×4.53×3.60 in.)
Weight: 0.76kg (1.676 pound)
Mounting: DIN-Rail or Panel mounting

Environmental Limits

Operating Temperature: -40 to 85°C (-40 to 185°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

MTBF

357,000 hrs

Warranty

5 years

Approvals

UL508 (pending), Class 1 Div 2 (pending), CE, FCC

Industrial Standard

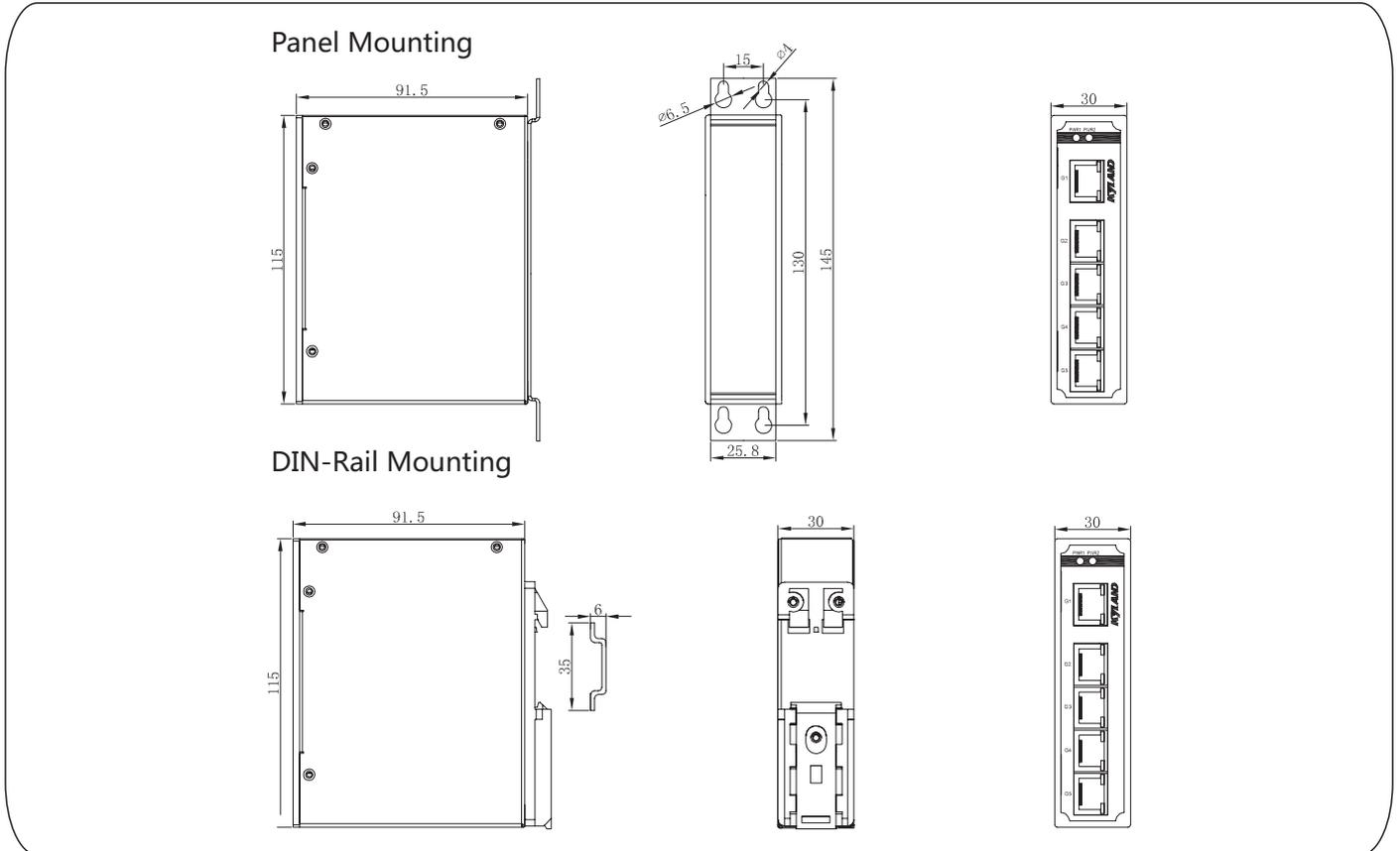
EMI:
FCC CFR47 Part 15, EN55022/CISPR22, Class A

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): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Machinery:
IEC60068-2-6 (Vibration)
IEC60068-2-27 (Shock)
IEC60068-2-32 (Free Fall)

Industry: IEC61000-6-2
Railway: EN50155, EN50121-4

Mechanical Drawing



Ordering Information

Model	Gigabit Ethernet Port		Power Supply	
	10/100/1000Base-TX		9-36VDC	18-50VAC/18-72VDC
KIEN1005G-5GE	5			

Please Select

Accessories

Model	Description
DT-BGAZ-01	Panel mounting kit
DT-FCZ-RJ45-01	RJ45 dustproof shield

Order Codes**KIEN1005G- 5GE- _____**
PS**PS: Power Supply**

12W=12VDC/24VDC (9-36VDC), dual power inputs

24A= 24VAC/24VDC/48VDC (18-50VAC/18-72VDC), dual power inputs