

KIEN1008G

8G Port Full Gigabit Unmanaged Din-Rail Switch



- Green Ethernet solution with ultra low power consumption design
- As low as 7.5 watts full load power consumption
- 8 10/100/1000Base-TX ports or 2 Gigabit combo ports and 6 10/100/1000Base-TX ports
- Redundant 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

KIEN1008G series are equipped with 8 Gigabit Ethernet ports and up to 2 fiber optic ports, making them ideal for applications that demand high bandwidth. KIEN1008G series are one of Kyland new ultra low power consumption Green Ethernet solutions. Its full load power consumption is 7.5W which enables not only power electricity saving, but also a longer life span for the devices. KIEN1008G full Gigabit unmanaged switches are powered with 24DCW (18-72VDC) power supply, and its operation temperature ranges from -40 to 85°C (-40 to 185°F). They are specially designed for harsh industrial environments and their EMC performance reaches industrial level 4. KIEN1008G series can be installed easily on a DIN-Rail or panel mounting distribution boxes.

Technical Specifications

Standard

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

Switch Properties

MAC Table: 8K
Packet Buffer: 1Mbit
Packet Forwarding Rate: 11.9Mpps
Switching Delay: <5μs

Interface

Gigabit Ethernet Port Combinations:

- 1) 2 combo 1000Base SFP slots or 10/100/1000Base-TX ports, and 6 10/100/1000Base-TX RJ45 ports
- 2) 8 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)
Multi Mode Fiber:
850nm, 550m (1000M)
Single Mode Fiber:
1310nm, 10km/40km (1000M)
1550nm, 60km/80km (1000M)

Power Requirements

Power Input:
24DCW (18-72VDC)
Power Terminal:
5-pin 5.08mm-spacing plug-in terminal block
Power Consumption:
KIEN1008G-2GX/GE-6GE: 8.5W (full load)
KIEN1008G-8GE: 7.5W (full load)

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

Physical Characteristics

Housing: Metal, fanless
Protection Class: IP40
Dimensions (W×H×D):
88×135×137 mm (3.46×5.31×5.39 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

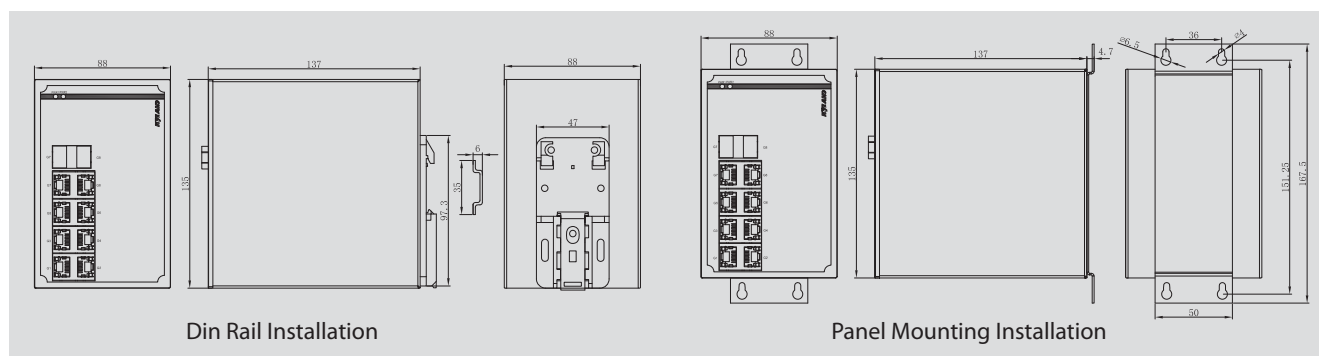
EMI:
FCC CFR47 Part 15, EN55022/CISPR22, Class A

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

KIEN1008G - _____ - _____
Ports PS

Ports

2GX/GE-6GE = 2 Gigabit combo ports, 6 10/100/1000Base-TX RJ45 ports
8GE = 8 10/100/1000Base-TX RJ45 ports

PS: Power Supply

24DCW = 18-72VDC, dual redundant power inputs

Example Order Codes

KIEN1008G-2GX/GE-6GE-24DCW

2 Gigabit combo ports, 6 10/100/1000Base-TX RJ45 ports, 18-72VDC dual redundant power inputs