

KIEN1009

9 port unmanaged DIN-Rail switches



» Overview

The KIEN1009 series are Kyland ultra low power consumption Green Ethernet series, offering abundant port combinations and supporting 1 optional Gigabit uplink port and 8 Fast Ethernet ports, plug and play. The solid metal housing with IP40 protection class, strong vibration-resistant mounting clip for DIN-Rail installation, wide operating temperature range from -40°C to 85°C, and excellent EMC performance give the switches an stable and reliable operating capability in the harsh industrial environments. The KIEN1009 series has been certified by CE, FCC, UL508 and CID2, making them ideal for setting up robust Fast Ethernet connection in the global power, ITS, factory automation, video surveillance and other industrial applications.

» Key Features

1 optional uplink Gigabit SFP port , 2 fast Ethernet fiber/RJ45 optional ports, 6 10/100Base-T(X) ports

EMC performance reaches industrial level 4

IP40 protection class

UL508, Class I Div 2, CE, FCC certificates

» Product Specifications

> Technical Specification

-Standard

IEEE 802.3i (10Base-T)

IEEE 802.3u (100Base-TX and 100Base-FX)

IEEE 802.3z (1000Base-X)

-Switch Properties

MAC Table: 8K

Packet Buffer: 1Mbit

Packet Forwarding Rate: 1.4Mpps

Switching Delay:<10 μ s

-Interface

Interface Gigabit Port: 1000Base-X, SFP slot

Fast Ethernet Port:

100Base-FX, SM/MM, SC/ST/FC connector

10/100Base-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:

24-48VDC

12-24VDC

100-240VAC,50/60Hz; 110-220VDC

Power Terminal:

5-pin 5.08mm-spacing plug-in terminal block (12/24/48VDC)

3-pin 5.08mm-spacing plug-in terminal block (220VAC/DC)

Power Consumption:

<6.5W (12/24/48VDC)

<7.5W (220VAC/DC)

Overload Protection: Support

Reverse Protection: Support

Redundancy Protection Support: (12/24/48VDC)

-Physical Characteristics

Housing: Metal

Cooling: Natural convection, fanless

Protection Class: IP40

Dimension:

53.6mm×135mm×106.5mm (W×H×D)(12/24/48VDC)

66mm×135mm×106.5mm (W×H×D) (220VAC/DC)

Weight: 0.76Kg

Mounting: DIN-Rail or Panel Mounting

-Environmental Limits

Operating Temperature:

-40°C to +85°C(12/24/48VDC)

-40°C to +75°C(220VAC/DC)

Storage Temperature: -40°C to +85°C

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

-Quality Assurance

MTBF: 397000h

Warranty: 5 years

-Approvals

CE(EMC): Models with L2 (24-48VDC) & L5 (12-24VDC) & HV(HV:100-240VAC,50/60Hz;110-220VDC)

CE(LVD): Models with L2 (24-48VDC) & HV(HV:100-240VAC,50/60Hz;110-220VDC)

FCC: Models with L2 (24-48VDC) & L5 (12-24VDC) & HV(HV:100-240VAC,50/60Hz;110-220VDC)

UL508: Models with L2 (24-48VDC)

UL Class I Div 2: Models with L2 (24-48VDC)

IEC 60950-1, EN 60950-1

-Industry 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: $\pm 2\text{kV}/\text{DM}$, $\pm 4\text{kV}/\text{CM}$; Data Port: $\pm 2\text{kV}$

IEC61000-4-6(CS) 10V(150kHz–80MHz)

Machinery:

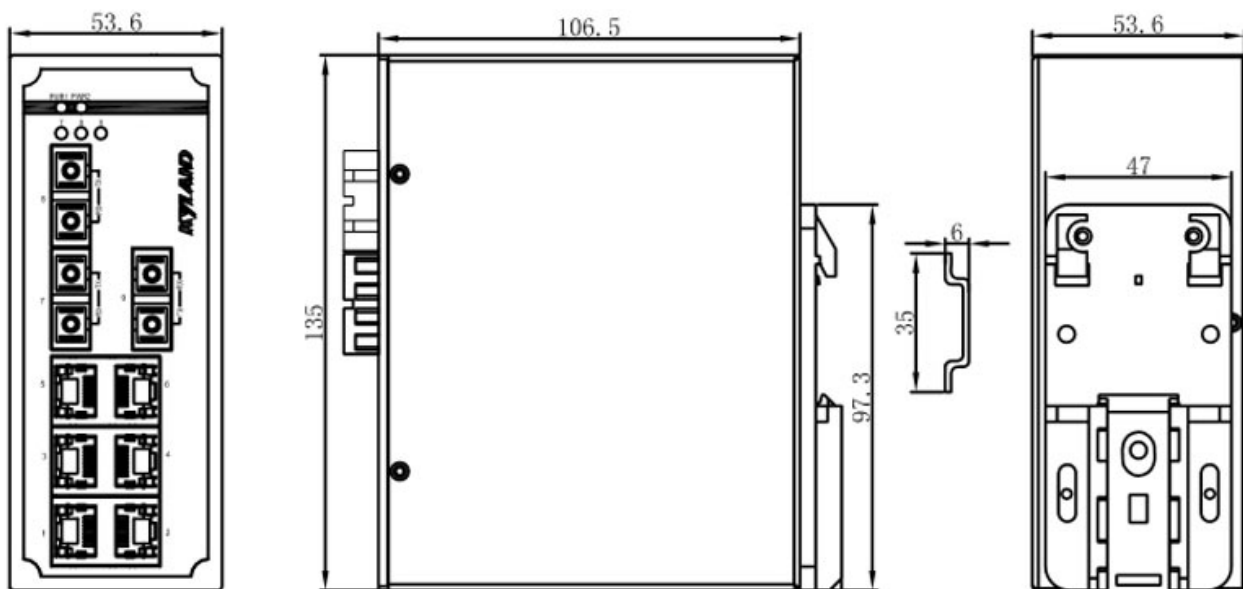
IEC60068-2-6 (Vibration)

IEC60068-2-27 (Shock)

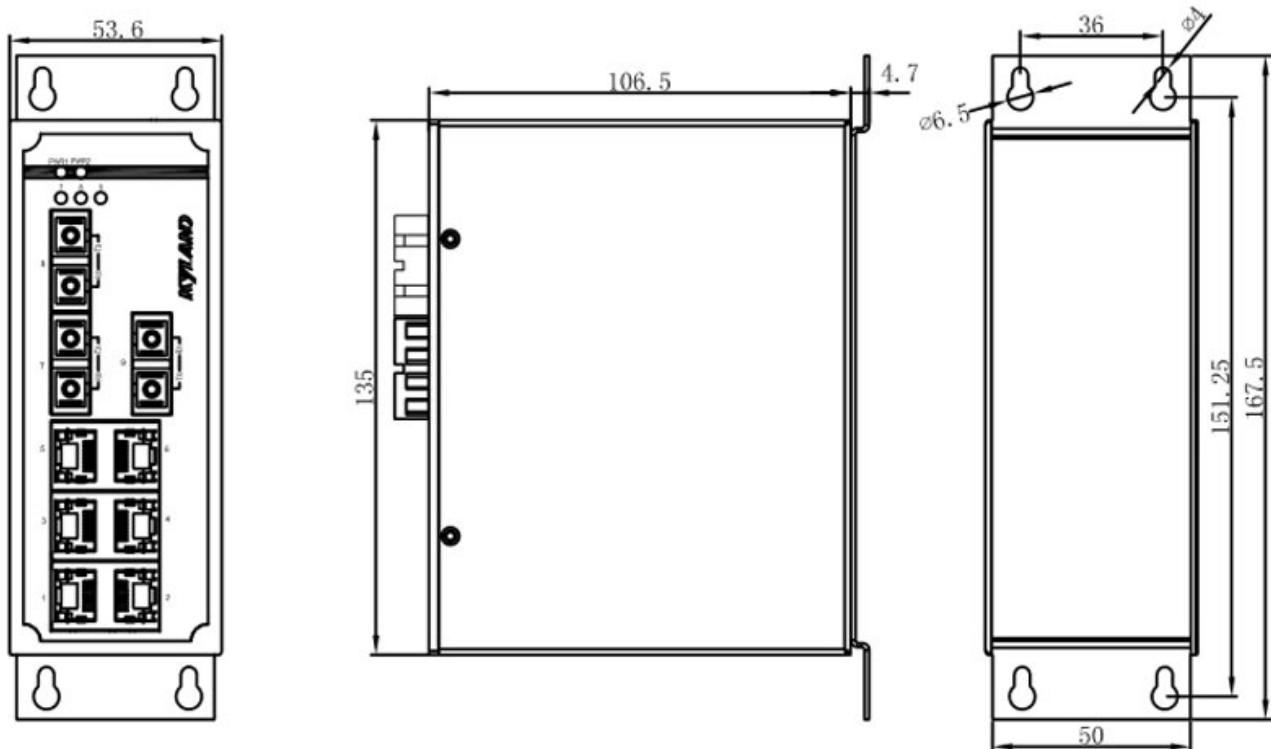
IEC60068-2-32 (Free Fall)

» Mechanical Drawing

DIN Rail Mounting



Panel Mounting



Ordering Information

KIEN1009-Ports-Connector-PS1-PS2

KIEN1009-Ports-Connector-PS1

Ports

1GX2S6T	1x1000Base-X, SFP slots; 2x100Base-FX, single mode fiber ports; 6x10/100Base-T(X) RJ45 ports
1GX2M6T	1x1000Base-X, SFP slots; 2x100Base-FX, multi mode fiber ports; 6x10/100Base-T(X) RJ45 ports
3S6T	3x100Base-FX, single mode fiber ports; 6x10/100Base-T(X) RJ45 ports
3M6T	3x100Base-FX, multi mode fiber ports; 6x10/100Base-T(X) RJ45 ports
2S6T	2x100Base-FX, single mode fiber ports; 6x10/100Base-T(X) RJ45 ports
2M6T	2x100Base-FX, multi mode fiber ports; 6x10/100Base-T(X) RJ45 ports
1S7T	1x100Base-FX, single mode fiber ports; 7x10/100Base-T(X) RJ45 ports
1M7T	1x100Base-FX, multi mode fiber ports; 7x10/100Base-T(X) RJ45 ports
8T	8x10/100Base-T(X) RJ45 ports

Connector

	100M fiber port specifications
SC05	SC connector, multi-mode, 1310nm, 5km
ST05	ST connector, multi-mode, 1310nm, 5km
FC05	FC connector, multi-mode, 1310nm, 5km
SC40	SC connector, single-mode, 1310nm, 40km
ST40	ST connector, single-mode, 1310nm, 40km
FC40	FC connector, single-mode, 1310nm, 40km
SC60	SC connector, single-mode, 1310nm, 60km
SC80	SC connector, single-mode, 1550nm, 80km
None	No 100M fiber port

PS

L2-L2	24-48VDC, redundant power inputs
L5-L5	12-24VDC, redundant power inputs
HV	100-240VAC, 50/60Hz; 110-220VDC, single power input

Accessories

Gigabit SFP module	Please refer to the Gigabit SFP module ordering list
DT-BGAZ-02	Panel for panel mounting

DT-FCZ-RJ45-01

Dustproof cover for RJ45 port

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