



KIEN1005

5 Port Unmanaged
Industrial Ethernet Switch

CE, FCC, UL, RoHS

Overview

The KIEN1005 simple industrial Ethernet DIN-Rail switch is specially designed for industrial applications. It offers five TX ports with adaptive functions, which enable it to configure automatically as 10Base-T or 100Base-TX, full-duplex or half-duplex mode. With the plug-and-play feature, it can be started up quickly.

Features

Reliable Industrial Ethernet Switching Technology

- 10/100Base-T(X)(RJ45), 100Base-FX(SC, FC or ST connector, single mode / multimode)
- Broadcast storm protection
- Supports IEEE802.3/802.3U/802.3X
- Store and forward switching mode
- 10/100Base-T/TX, full/half duplex, MDI/MDI-X adaptive
- QoS(default high priority) service for the 5th port
- Backplane switching capacity of 1G
- Transmission delay less than 6us
- TVS (Transient Voltage Suppressor) protection of 1KV for Ethernet ports.

Industrial Reliability

- Wide range operating temperature: -40 to 75°C(-40 to 167°F)
- Power input of 12V~36VDC, customization for 110VDC, 220VDC/ VAC
- Reverse polarity connection protection for power supply
- IP40 protection class with aluminum casing
- DIN-Rail or Wall-mounting
- EMC industrial level 4, complies with IEC61850 standard.

Customization

- DC110V or DC/AC 220V module
- Transmission distance: 60KM、80KM、120KM
- OEM/ODM

Functions

Industrial Design for Power Supply

The KIEN1005 series offers alternative power supply modules including DC12V-36V, DC110V and DC/AC220V. It comes with electromagnetic protection technology and has been certificated as industrial level four. For the installation requirements, it provides protection against reverse polarity connection, over-current and over-voltage.

Broadcast Storm Protection

The KIEN1005 offers broadcast storm protection to ensure effective transmission of valid data and the discarding of invalid data.

QoS for Port

QoS(Default low priority) service is available in the 5th port of the KIEN1005 series. So the KIEN1005 series would be your optimal choice if your application contains very important communication devices.

Technical Specifications

Standard

IEEE802.3
IEEE802.3U
IEEE802.3X
Store and forward switching mode

MAC Address Table Size

32K

Network

Chain and star network topology.

Service

Diagnostics: LEDs(power, link status, port rate,
Port priority: QoS for 5th port (default high priority)
Current over-load protection: Yes(AC220V)
Reverse polarity power connection protection: Yes
Broadcast storm protection: Yes

Interface

RJ45 port 5x10/100Base-TX(KIEN1005-5T)
RJ45 port 4x10/100Base-TX and Fiber port 1x100Base-FX
(KIEN1005-1S(M)-4T)

Power Requirements

Power input: 24VDC (12-36VDC), 110VDC, 220VDC/AC
Power consumption: <3.5W

Physical Characteristics

Casing: IP40 protection
Fanless design
Dimensions(WxHxD): 36.5x120x90 mm (1.44x4.72x3.54 in.)
Weight: 1000g (2.205 pounds)
Installation: DIN-Rail or wall mounting

Environmental Limits

Operating Temperature: -40 to 75°C(-40 to 167°F)
Storage Temperature: -45 to 85°C (-49 to 185°F)
Ambient Relative Humidity: 0 to 95% (non-condensing)

Approvals

EMC interference immunity:
IEC61000-4-2(ESD): ±8KV contact discharge, ±15KV air discharge
IEC61000-4-3(RS): 10V/M (80-1000MHz)
IEC61000-4-4(EFT): ±4KV power line, ±4KV data line
IEC61000-4-5(Surge): ±4KV(line/earth), ±4KV (line/line)power line,
±4KV data line
IEC61000-4-6(CS): 3V(10KHZ~150KHZ), 10V(150KHZ~80KHZ)

EMC emitted immunity:
FCC CFR47 Part15: FCC CFR47 Part 15 Class A
EN55022: EN55022 Class A
Vibration: IEC60068-2-6
Shock: IEC60068-2-27
Free Fall: IEC60068-2-32
Maritime: DNV(Under processing)
UL60950,CE,FCC,UL,ROHS

MTBF

35 years

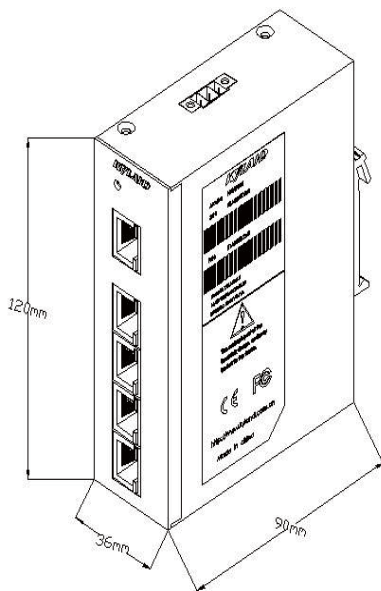
Warranty

5 Years

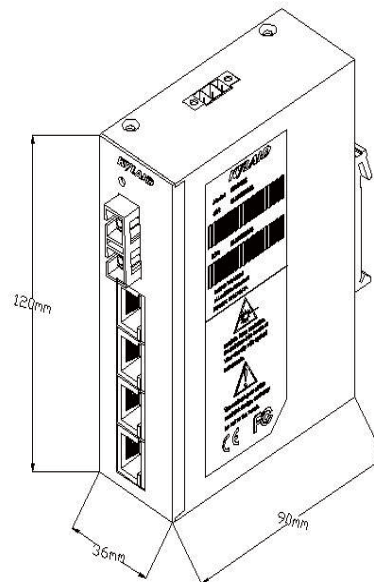
Ordering Information

Model	Description
KIEN1005	5 x 10/100Base-T/TX
KIEN1005-1M-SC	4 x 10/100Base-T/TX, 1 x 100 Base-FX, multimode, SC
KIEN1005-1M-FC	4 x 10/100Base-T/TX, 1 x 100 Base-FX, multimode, FC
KIEN1005-1M-ST	4 x 10/100Base-T/TX, 1 x 100 Base-FX, multimode, ST
KIEN1005-1S-SC	4 x 10/100Base-T/TX, 1 x 100 Base-FX, single mode, SC
KIEN1005-1S-FC	4 x 10/100Base-T/TX, 1 x 100 Base-FX, single mode, FC
KIEN1005-1S-ST	4 x 10/100Base-T/TX, 1 x 100 Base-FX, single mode, ST

Mechanical Drawing



KIEN1005-5T



KIEN1005-1S(M)-4T