

KIEN1005

5 Port Unmanaged Industrial Ethernet Switch



DNV, CE, FCC, RoHS, TB Certification,
Chinese State Grid Certification

Overview

The KIEN1005 simple industrial Ethernet DIN-Rail switch is specially designed for industrial applications. It offers 5 fast Ethernet ports. With the plug-and-play feature, it can be started up quickly.

Features

- Supports 4 10/100Base-T(X) Rj45 ports and the 5th port is for copper or fiber, supporting QoS
- Backplane switching capacity is 1G
- Broadcast storm control
- Complies with EMC industrial level 4 regulated in IEC61850-3 standard
- Abundant power supply options
- Aluminum case, fanless design
- Operating temperature: -40 to 85°C (-40 to 185°F)
- DIN-Rail installation
- IP40 protection class

Technical Specifications**Standard**

IEEE802.3
IEEE802.3u
IEEE802.3x
IEEE802.1p
Store and forward switching mode

Network

Chain and star network topology

Interface

100M Fiber Ports: 1 x 100Base-FX port, SM/MM, FC/SC/ST
10/100M Copper Ports: 4 or 5 x 10/100Base-T(X) ports, RJ45
LED Indicators: PWR, LINK/ACT, 10M/100M

Cable

Twisted Pair: 0-100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 1310nm, 0-5km
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements

Power input: 24VDC (9-36VDC), 110VAC/220VAC (100-240VAC), single power input
Power terminal: 3-Pin 3.81mm-spacing plug-in terminal block
Power consumption: <3.5W

Physical Characteristics

Casing: Aluminum case (fanless)
Protection class: IP40
Installation: DIN-Rail or wall mounting
Dimensions(WxHxD): 36.5x120x90 mm (1.44x4.72x3.54 in)
Weight: 0.3kg (0.661 pound)

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: 0 to 95% (non-condensing)

Approvals

IEC61000-4-2 (ESD): ±4KV contact discharge, ±8KV air discharge
IEC61000-4-3 (RS): 10V/M (80-1000MHz)
IEC61000-4-4 (EFT): ±2KV power line, ±1KV data line
IEC61000-4-5 (Surge): power line ±2KV CM/ ±1KV DM, data line ±1KV
IEC61000-4-6 (CS): 3V (10KHZ-150KHZ), 10V (150KHZ-80MHZ)
IEC61000-4-8 (Power frequency magnetic field): 100A/m cont. 1000A/m, 1s to 3s
IEC61000-4-12/18 (Damped oscillatory wave): 2.5KV CM, 1KV DM
IEC61000-4-10 (Damped oscillatory): 30A/m
IEC61000-4-16 (Common mode conduct): 30V cont. 300V, 1s
FCC CFR47 Part 15/EN55022: Class A&B
IEC61000-6-2 (Industrial Standards), EN50121-4 (Railway Applications)

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MTBF

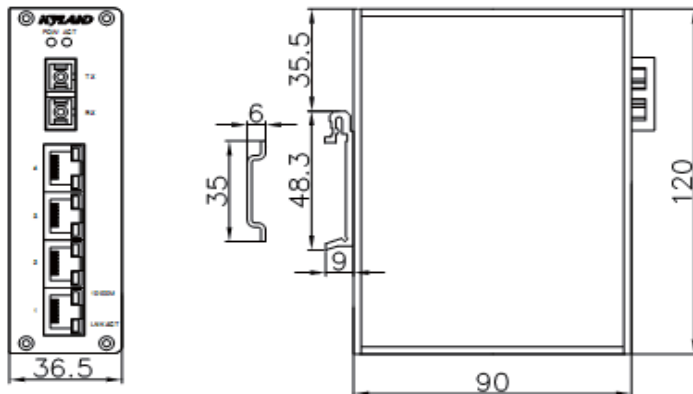
35 years

Warranty

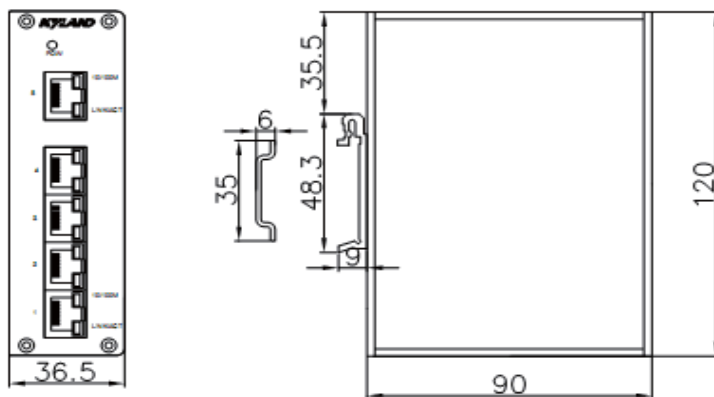
5 years

Mechanical Drawing

KIEN1005-S(M)-4T



KIEN1005-5T



Ordering Information

Model	Description
KIEN1005-5T-24VDC	Unmanaged Ethernet switch with 5 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 24VDC (12-36VDC), single power input, -40 to 85°C operating temperature
KIEN1005-5T-220VAC	Unmanaged Ethernet switch with 5 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 110VAC/220VAC (100-240VAC), single power input, -40 to 85°C operating temperature
KIEN1005-S-4T-24VDC	Unmanaged Ethernet switch with 1 100Base-FX port, single mode, FC/SC/ST connector, 4 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 24VDC (12-36VDC), single power input, -40 to 85°C operating temperature
KIEN1005-S-4T-220VAC	Unmanaged Ethernet switch with 1 100Base-FX port, single mode, FC/SC/ST connector, 4 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 110VAC/220VAC (100-240VAC), single power input, -40 to 85°C operating temperature
KIEN1005-M-4T-24VDC	Unmanaged Ethernet switch with 1 100Base-FX port, multi mode, FC/SC/ST connector, 4 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 24VDC (12-36VDC), single power input, -40 to 85°C operating temperature
KIEN1005-M-4T-220VAC	Unmanaged Ethernet switch with 1 100Base-FX port, multi mode, FC/SC/ST connector, 4 10/100Base-T(X) ports, RJ45 connector, DIN-rail, 110VAC/220VAC (100-240VAC), single power input, -40 to 85°C operating temperature

Power supply: 24VDC, 110VAC/220VAC, single power input

Order Codes

KIEN1005 - _____ - _____ - _____ - _____ - _____
FX Connector Distance TX PS

FX: Fiber Ports

M= 1 multi mode fiber ports

S= 1 single mode fiber ports

Connector: Fiber Connector

FC= FC connector

SC= SC connector

ST= ST connector

SD= single fiber bi-direction, only for single mode, only SC connector (different price)

Distance: Fiber Distance

2= multi mode, 850nm, 2km

5 (or None)= multi mode, 1310nm, 5km (multi mode default)

40 (or None)= single mode, 1310nm, 40km (single mode default)

60= single mode, 1310nm, 60km (different price)

60L= single mode, 1550nm, 60km (different price)

80L= single mode, 1550nm, 80km (different price)

5T3R= single fiber bi-direction, 1550T/1310R, 20km (different price)

5R3T= single fiber bi-direction, 1550R/1310T, 20km (different price)

40/5T3R= single fiber bi-direction, 1550T/1310R, 40km (different price)

40/5R3T= single fiber bi-direction, 1550R/1310T, 40km (different price)

80/5T3R= single fiber bi-direction, 1550T/1310R, 80km (different price)

80/5R3T= single fiber bi-direction, 1550R/1310T, 80km (different price)

TX: Copper Ports

4T= 4 10/100Base-T(X) ports, RJ45 connector

5T= 5 10/100Base-T(X) ports, RJ45 connector

PS: Power Supply

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

220W=110VAC/220VAC (100-240VAC), single power input

Example order codes

KIEN1005-M-SC-4T-12W

1 multi mode 1310nm 5km fiber ports with SC connector, 4 10/100Base-TX RJ45 ports, 12VDC/24VDC single power input