



KIEN1000

8 Port Unmanaged
Industrial Ethernet Switch

UL, CE, FCC, RoHS,
Chinese State Grid
Certification

Overview

The KIEN1000 is an unmanaged 8-port industrial Ethernet switch. It offers 8 10/100Base-T(X) ports. With the plug-and-play feature, it is started up shortly. KIEN1000 offers dual redundant DC power inputs.

Features

1. Supports 8 10/100Base-T(X) RJ45 ports
2. Supports DT-Ring, recovery time<100ms
3. Complies with EMC industrial level 4 regulated in IEC61850-3 standard
4. Alarm output for the failure of power supply
5. Ribbed aluminum case for heat dissipation (patent), fanless design
6. Operating Temperature: -40 to 85°C (-40 to 185°F)
7. DIN Rail or wall mounting
8. IP40 protection class

Technical Specifications

Standard

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

Network

Ring, chain and star network topology

Interface

10/100M Copper Ports: 8 x 10/100Base-T(X) ports, RJ45, two of them support redundant function
Alarm Contact: 2-Pin 3.81mm-spacing terminal block, 1A@30VDC, 0.5A@125VAC
LED Indicators: RUN1, RUN2, PWR1, PWR2, 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: 12VDC/24VDC (9-36VDC), 48VDC (36-72VDC), 110VDC (70-140VDC), 220VDC (154-370VDC), dual redundant power inputs; 110VAC (85-165VAC), 220VAC (110-265VAC), single power input
Power terminal: 3-Pin 3.81mm-spacing plug-in terminal block
Power consumption: <6W

Physical Characteristics

Casing: Ribbed aluminum case (fanless)
Protection class: IP40
Installation: DIN-Rail or wall mounting
Dimensions (WxHxD): 55.4x139x119.5 mm (2.18x5.47x4.70 in.)
Weight: 0.6kg (1.323 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): power line ±2KV, data line ±1KV
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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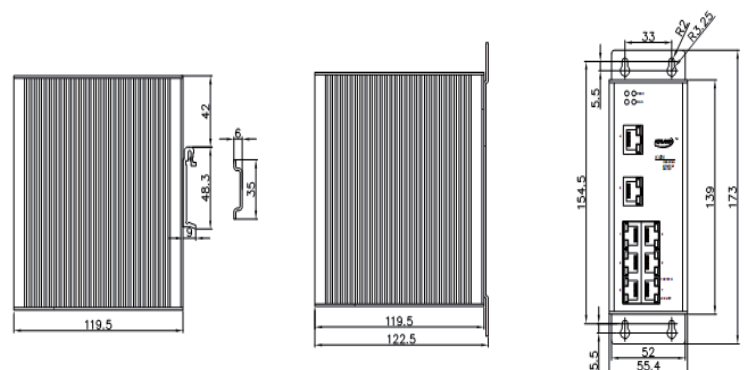
MTBF

35 years

Warranty

5 years

Mechanical Drawing



Ordering Information

KIEN1000-8T: Unmanaged Ethernet switch with 2 100Base-TX, RJ45, redundant ports, 6 10/100Base-T/TX, RJ45 ports, DIN-Rail, -40 to 85°C operating temperature, supporting ring topology

Power supply: 12VDC/24VDC, 48VDC, 110VDC, 220VDC, dual redundant power inputs; 110VAC, 220VAC, single power input

Order Codes**KIEN1000-8T-_____**
PS**PS: Power Supply**

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

48= 48VDC (36-72VDC), dual power inputs

110D=110VDC (66-154VDC), dual power inputs

220D= 220VDC (220-370VDC), dual power inputs

110A=110VAC (85-165VAC), single power input

220A=220VAC (165-265VAC), single power input