



KIEN2000

8 Port Unmanaged
Industrial Ethernet Switch

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

Overview

The KIEN2000 is an unmanaged 8-port industrial Ethernet switch. It offers 2 redundant 100Base-FX ports and 6 10/100Base-T(X) ports. With the plug-and-play feature, it is started up shortly. KIEN2000 offers dual redundant DC power inputs.

Features

1. Supports 2 100Base-FX ports and 6 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
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

100M Fiber Ports: 2 x redundant 100Base-FX ports, SM/MM, FC/SC/ST
10/100M Copper Ports: 6 x 10/100Base-T(X) ports, RJ45
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)

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

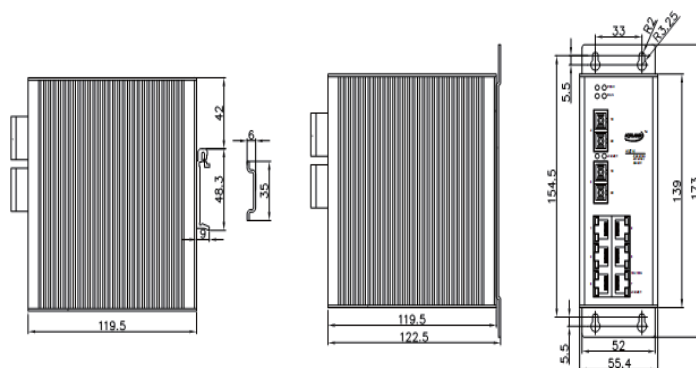
MTBF

35 years

Warranty

5 years

Mechanical Drawing



Ordering Information

Model	Description
KIEN2000-2S-6T	Unmanaged Ethernet switch with 2 100Base-FX ports, single mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, DIN-Rail, 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, -40 to 85°C operating temperature, supporting ring topology
KIEN2000-2M-6T	Unmanaged Ethernet switch with 2 100Base-FX ports, multi mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, DIN-Rail, 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, -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

KIEN2000 - _____ - _____ - _____ - _____ - _____
FX Connector Distance TX PS

FX: Fiber Ports

2M= 2 multi mode fiber ports
2S= 2 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

6T= 6 10/100Base-T(X) ports, RJ45 connector

PS: Power Supply

12W= 12VDC/24VDC (9-36VDC), dual power inputs
48= 48VDC (36-72VDC), dual power inputs
110=110VDC (66-154VDC), dual power inputs
220= 220VDC (220-370VDC), dual power inputs
110A=110VAC (85-165VAC), single power input
220A=220VAC (165-265VAC), single power input

Example order codes

KIEN2000-2M-SC-6T-24W

2 multi mode 1310nm 5km fiber ports with SC connector, 6 10/100Base-TX RJ45 ports, 12VDC/24VDC single power input

Please visit our website: www.kyland.cn for the latest updates.