



### 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: 24VDC (9-36VDC), 48VDC (36-72VDC), 110VDC (70-140VDC), dual redundant power inputs; 110VAC (85-165VAC), single power input; 220VAC/220VDC (110-265VAC/154-370VDC), 220VDC, dual redundant power inputs, 220VAC, 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): ±8KV contact discharge, ±15KV air discharge  
IEC61000-4-3 (RS): 10V/M (80-1000MHz)  
IEC61000-4-4 (EFT): power line ±4KV, data line ±2KV  
IEC61000-4-5 (Surge): power line ±4KV CM/±2KV DM, data line ±2KV  
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), IEC61850-3 (Substations), IEEE1613 (Electric Power Substations), EN50121-4 (Railway Applications)

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

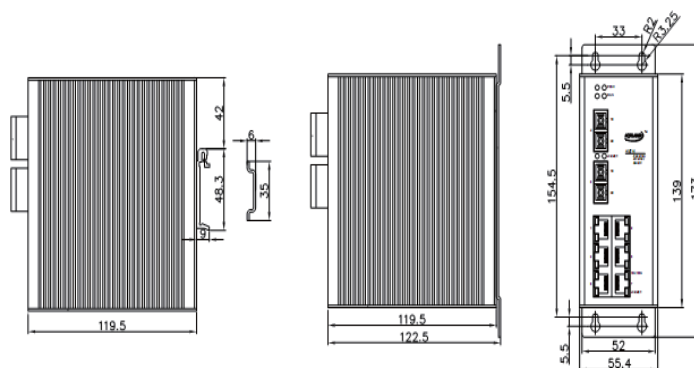
### MTBF

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, 24VDC (9-36VDC), 48VDC (36-72VDC), 110VDC (70-140VDC) dual redundant power inputs, 110VAC (85-165VAC) single power input; 220VAC/220VDC (110-265VAC/154-370VDC), 220VDC, dual redundant power inputs, 220VAC 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, 24VDC (9-36VDC), 48VDC (36-72VDC), 110VDC (70-140VDC) dual redundant power inputs, 110VAC (85-165VAC) single power input; 220VAC/220VDC (110-265VAC/154-370VDC), 220VDC, dual redundant power inputs, 220VAC single power input, -40 to 85°C operating temperature, supporting ring topology

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