



## KIEN6000

8 Port Managed  
Industrial Ethernet Switch

CE, FCC, RoHS,  
Chinese State  
Grid Certification

### Overview

KIEN6000 is an 8-port managed DIN-Rail Industrial Ethernet Switch. It comes with DT-Ring technology, which is developed by Kyland and used to set up a redundant Ethernet ring network. KIEN6000 also supports dual redundant power inputs. KIEN6000 offers 2 100Base-FX ports and 6 10/100Base-T(X) ports. With a web-based configuration interface, KIEN6000 ensures an easy installation and management of the switches.

### Features

1. Supports 2 100Base-FX ports and 6 10/100Base-T(X) RJ45 ports
2. Supports DT-Ring (recovery time <100ms) and STP
3. Supports QoS, VLAN, SNMP MIB V1/V2/V3, IGMP, port mirroring, port trunking, static MAC address binding
4. Complies with EMC industrial level 4 regulated in IEC61850-3 standard
5. Supports CLI, TELNET, WEB, management functions
6. Broadcast storm control
7. Abundant power supply options and dual redundant DC power inputs
8. Alarm output for the failure of power supply
9. Ribbed aluminum case for heat dissipation (patent), fanless design
10. Operating temperature: -40 to 85°C (-40 to 185°F)
11. DIN-Rail and wall-mounting
12. IP40 protection class

### Technical Specifications

#### Standard

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

#### Network

Ring, chain and star network topology

#### Interface

100M Fiber Ports: 2 x 100Base-FX ports, FC/SC/ST  
10/100M Copper Ports: 6 x 10/100Base-T(X) ports, RJ45  
Alarm Contact: 2-Pin 3.81mm-spacing terminal block, 250VAC/350VDC Max; 120mA Max  
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 (9-18VDC), 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC (66-154VDC), dual redundant power inputs, 110VAC (85-165VAC) single power input; 220VAC/220VDC (165-265VAC/220-370VDC), 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)

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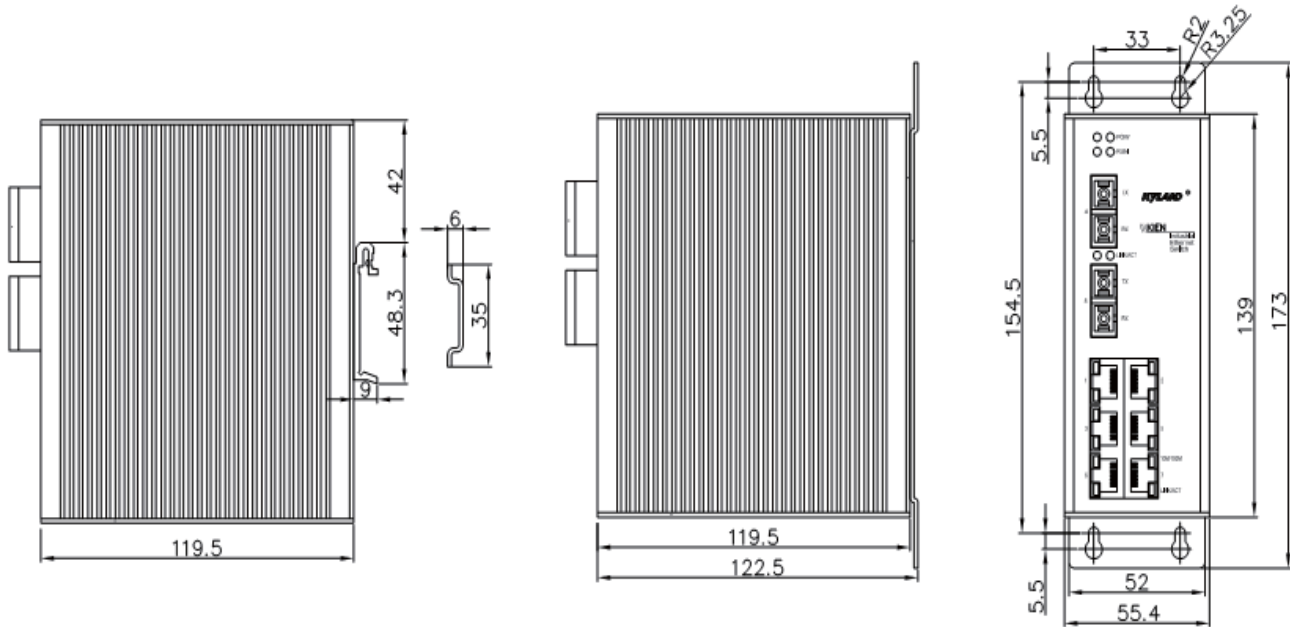
#### MTBF

35 years

#### Warranty

5 years

### Mechanical Drawing



### Ordering Information

Model	Description
KIEN6000-2S-6T	Managed Ethernet switch with 2 100Base-FX ports, single mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, DIN-Rail, 12VDC(9-18VDC), 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC (66-154VDC), dual redundant power inputs; 110VAC (85-165VAC), single power input; 220VAC/220VDC (165-265VAC/220-370VDC), 220VDC, dual redundant power inputs, 220VAC, single power input
KIEN6000-2M-6T	Managed Ethernet switch with 2 100Base-FX ports, multi mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, DIN-Rail, 12VDC(9-18VDC), 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC (66-154VDC), dual redundant power inputs; 110VAC (85-165VAC), single power input; 220VAC/220VDC (165-265VAC/220-370VDC), 220VDC, dual redundant power inputs, 220VAC, single power input

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