



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

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 redundant 100Base-FX ports, FC/SC/ST
10/100M Copper Ports: 6 10/100Base-T(X) ports, RJ45
Alarm Contact: 2-Pin 3.81mm-spacing terminal block,
250VAC/350VDC Max; 120mA Max

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), 220VAC/DC (165-265VAC/220-370VDC), dual redundant DC power inputs
Power terminal: 3-Pin 3.81mm-spacing plug-in terminal block
Power consumption: <6W

Physical Characteristics

Casing: Ribbed aluminum case (fanless)
Protection class: IP40
Dimensions (WxHxD): 55.4x139x119.5 mm (2.18x5.47x4.70 in.)
Weight: 1kg (2.205 pound)
Installation: DIN-Rail or wall mounting

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

Ordering Information

KIEN6000-2S(M)-6T: 2 x 100Base-FX ports, SM/MM, FC/SC/ST, 6 x 10/100Base-T(X) ports, RJ45

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

