

KIEN2000B

Overview

KIEN2000B is an unmanaged 8-port industrial Ethernet rail switch. It offers one or two 100Mbit/s fiber ports and six or seven 10/100Base-T/TX TP ports. KIEN2000B is different from KIEN2000 since it does not offer ring network. With the plug-and-play feature, it is started up shortly.



Features

High-performance Industrial Ethernet Switch

- 1.10/100Base-T/TX Ethernet ports, adaptive, full/half duplex, Auto MDI/MDI-X connection
- 2.100Base-FX fiber ports, single mode/multimode, full duplex
- 3.Store-and-forward switching mode conforms to IEEE802.3/802.U/802.3X

Industrial Power

- 1.Industrial power input of DC24V (DC18V ~ 36V) .
- 2.Reliable protection for EMC and against over-current/over-voltage
- 3.Redundant power input.

Rugged Design

- 1.Ribbed heat-removal design(fanless); operation at -35°C to +75°C
- 2.Solid IP40 housing
- 3.Easy DIN-Rail mounting or optional wall-mounting

Main Functions

LED Indicator

The LEDs of the front panel indicate the port status correctly including transmission rate, link status and system status.

Layer-2 Switching

Switches work in two ways: Cut-Through and Store-and-Forward. In Cut-Through, a data packet is immediately relayed further after detecting the target address; in Store-and-Forward, a data packet is first read-in completely and checked for errors before the switch relays the same. KIEN2000B employs Store-and-Forward that is a switching mode widely used.

Dimensions: 55.4mm x 142mm x 120.5mm(W x H x D)

Parameters

Product Description

Model: KIEN2000B

Description: Unmanaged Industrial Ethernet Rail Switch, store and forward switching mode, Ethernet (10 Mbit/s) and Fast-Ethernet (100 Mbit/s)

Port Type and Quantity:

2 x 100Base-FX, optical fiber cable, full duplex

6 x 10 /100Base-T/TX, TP cable, RJ45 Socket (shielded), auto-negotiation, auto-polarity

More Interface

Power Terminal: 2 x DC power terminal, 3-core

Network size – length of cable

Twisted pair (TP): 100m

Multimode fiber: Distance: 2–5km, Wavelength: 1310nm, 1310nmOptical power: >–20dbm

Singlemode fiber: Distance: 40km(60km, 80km for special requirement),

Wavelength: 1310nm/1550nm

Optical power: >–13dbm

Network size – cascability

Line / star topology: Any

Power requirements

Power input: 18V – 36V DC power input

Power consumption: <6W

Performance

Transfer Rate: 148810pps

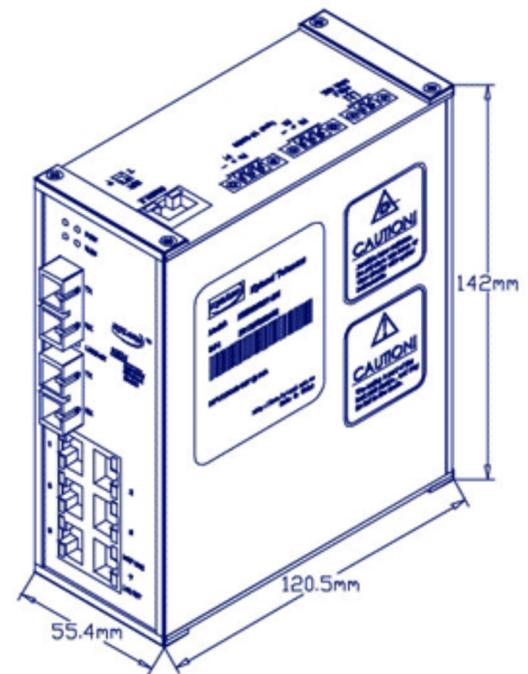
MAC Address Table Size: 1K

Service

Diagnostics: LEDs (power, link status, port rate)

Redundancy functions

Redundant 24V power supply



Ambient conditions

Operating temperature: –35°C to +75°C

Storage/transport temperature: –45°C to +85°C

Relative humidity (non-condensing): 10% to 95%

MTBF: 10years

Mechanical construction

Dimensions(W x H x D) : 55.4mm x 142mm x 120.5mm

Mounting: Din-rail or Wall-mounting

Protection class: IP40

EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD): ±4 kV contact discharge, ±8 kV air discharge

EN 61000-4-3 electromagnetic field: 10 V/m (80 – 1000 MHz)

EN 61000-4-4 fast transients (burst): ±2 KV power line, ±1 kV data line

EN 61000-4-5 surge voltage: Power line: ±2 kV (line/earth), ±1 kV (line/line), ±1 kV data line

EN 61000-4-6 conducted immunity: 3 V (10 kHz – 150 kHz), 10 V (150 kHz – 80 MHz)

EMC emitted immunity

FCC CFR47 Part 15: FCC CFR47 Part 15 Class A

EN 55022: EN 55022 Class A

Approvals

Certificate: FCC, CE, UL

Order Information

Model	Description
KIEN2000B	2 x 100Mbit/s fiber port, redundant; 6 x 10 /100Base-T/TX