

KIEN3024

Overview

KIEN3024 Unmanaged industrial Ethernet switch is developed for industrial tree/chain networking. It offers twenty-four Ethernet TP ports and two optical fiber slot. It can be used in a wide range of harsh industrial environments including Telecommunication, Electric Power, Factory Automation, and Industrial Automation DCS System etc.



Features

Economical Industrial Ethernet Switch

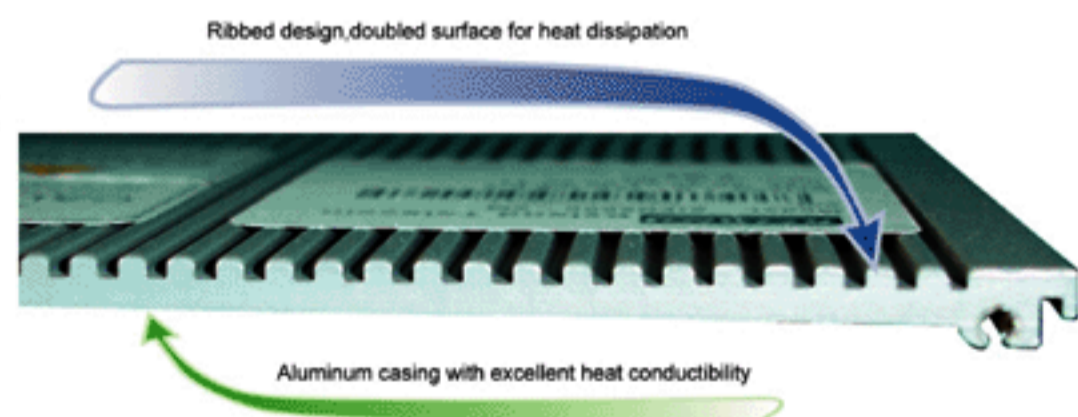
- 1.10/100Base-T/TX Ethernet ports, adaptive, full/half duplex, auto MDI/MDI-X connection.
- 2.100Base-FX fiber ports, single mode/multimode, full duplex.
- 3.Broadcast storm control.
- 4.Store-and-forward switching mode conforms to IEEE802.3/802.U/802.3X

Optional Industrial Power

- 1.Industrial power supply of AC220V
- 2.Industrial DC power supply at various level(DC+24V、DC-48V,DC110V)
- 3.Reliable protection for EMC and against over-current/over-voltage.

Rugged Design

- 1.Ribbed heat-removal design(fanless); operation at -35°C to $+75^{\circ}\text{C}$
- 2.Solid IP40 housing
- 3.Stable rack-mounting



Main Functions

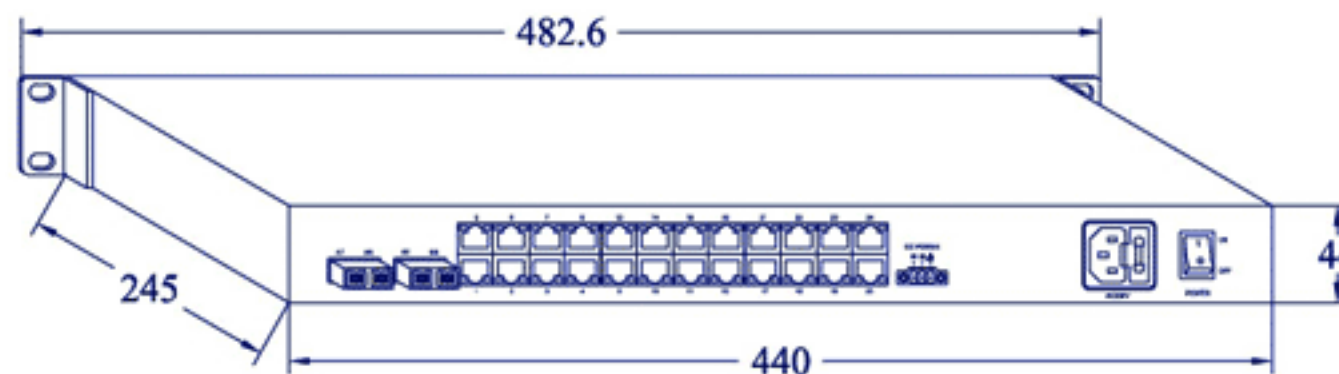
LED Indicator

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. KIEN3024 employs Store-and-Forward that is a switching mode widely used.

Dimensions: 482.6mm x 44mm x 245mm (W x H x D)



Parameters

Product Description

Model: KIEN3024

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

Port Type and Quantity:

0-2 x 100Base-FX, optical fiber, full-duplex

24 x 10 /100Base-T(X), TP cable, RJ45 Socket, Auto-Negotiation, auto MD/MDI-X connection

More Interface

Power Terminal: 1 x AC220V power terminal

Network size – length of cable

Twisted pair (TP): 100m

Multimode fiber: Distance: 2-5km, Wavelength: 1310nm, Optical power: >-20dbm

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

Wavelength: 1310/1550nm, Optical power: >-13dbm

Network size – cascadiability

Line / star topology: Any

Power requirements

Power input: AC220V, DC-48V, DC+24V, DC110V

Power consumption: <25W

Performance

Transfer Rate: 148810pps

MAC Address Table Size: 8K

Service

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

Security: Port security (MAC based and IP based)

Other services: Broadcastlimite

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: 10 years

Mechanical construction

Dimensions (W x H x D): 482.6mm x 44mm x 245mm

Mounting: Rack-mounting (19' 1U)

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,

Order Information

Model	Description
KIEN3024-2S	2 x 100Base-FXs, single mode, 24 x 10 /100Base-T/TX, RJ45 socket
KIEN3024-1S	1 x 100Base-FXs, single mode, 24 x 10 /100Base-T/TX, RJ45 socket
KIEN3024	No fiber port
KIEN3024-2M	2 x 100Base-FXs, multimode, 24 x 10 /100Base-T/TX, RJ45 socket
KIEN3024-1M	1 x 100Base-FXs, multimode, 24 x 10 /100Base-T/TX, RJ45 socket