

# KIEN1026

## Layer 2 26 Port Unmanaged Rack Mountable Ethernet



- 2 100Base-FX fiber optical ports, and 16 or 24 10/100Base-TX RJ45 ports.
- Support both front and rear installation.
- IP40 protection class.
- CE/FCC, EN60959 certifications



### Overview

KIEN1026 is an entry-level unmanaged industrial Ethernet switch specially designed by KYLAND for industrial applications. It supports up to 24 10/100Base-T(X) and 2 100Base-FX ports, Aluminum IP40 protection class and -40 to 85°C operating temperature. Its high-performance switch engine, solid and closed case, and excellent EMC protection (level 4) make KIEN1026 applicable in all kinds of harsh and dangerous industrial environments.

### Technical Specifications

#### Standard

IEEE 802.3i  
IEEE 802.3u

#### Switch Properties

MAC Table: 8K  
Packet Buffer: 4Mbit  
Packet Forwarding Rate: 4.2Mpps  
Switching Delay: <5μs

#### Interface

Fast Ethernet Fiber Ports: max 2 100Base-FX, SM/MM ports, FC/SC/ST connector  
Fast Ethernet RJ45 Ports: 16 or 24 10/100Base-TX RJ45 ports  
Console Port: RS232 (RJ45 connector)  
Alarm Contact: 3-pin 3.81mm-spacing plug-in terminal block, 250VAC/220VDC Max, 2A Max, 60W Max

#### LED

1) LEDs on Front Panel:  
Power LED: PWR1, PWR2  
Interface LED: Link/ACT (Fast Ethernet port), Speed (Fast Ethernet port), DPX, Link (fiber optical port)  
2) LEDs on Rear Panel:  
Interface LED: Link/ACT  
Port Speed LED: Speed

#### Transmission Distance

Twisted Pair:  
100m (Standard CAT5, CAT5e network cable)

Multi Mode Fiber:  
1310nm, 5km (100M)  
Single Mode Fiber:  
1310nm, 40km/60km (100M)  
1550nm, 60km/80km (100M)

### Power Requirements

Power Input:  
24DC (18-36VDC), 220AC/DCW (85-264VAC/77-300VDC)  
Power Terminal:  
5-pin 5.08mm-spacing plug-in terminal block  
Power Consumption: <15W

Overload Protection: Support  
Reverse Connection Protection: Support  
Redundancy Protection: Support

### Physical Characteristics

Housing: Metal, fanless  
Protection Class: IP40  
Dimensions (W×H×D):  
482.6×44×245mm (19×1.73×9.65 in.)  
Weight: 2.5kg (5.512 pound)  
Mounting: 19 inch 1U Rack 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: 5 to 95% (non-condensing)

### MTBF

341,336 hrs

### Warranty

5 years

### Approvals

CE, FCC

### Industrial Standard

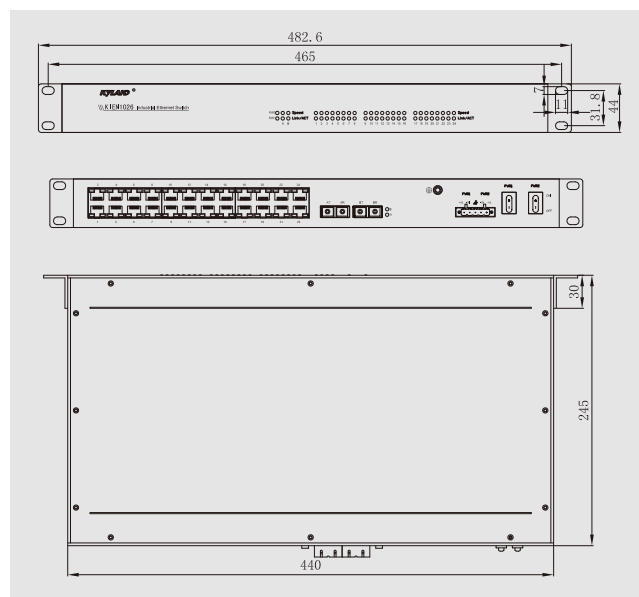
EMI:  
FCC CFR47 Part 15, EN55022/CISPR22, Class A

EMS:  
IEC61000-4-2 (ESD): ±8kV (contact), ±8kV (air)  
IEC61000-4-3 (RS): 10V/m (80MHz-2GHz); 3V/m (2-2.7GHz)  
IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV  
IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±2kV/CM; Data Port: ±2kV  
IEC61000-4-6 (CS): 10V (150kHz-80MHz)

Machinery:  
IEC60068-2-6 (Vibration)  
IEC60068-2-27 (Shock)  
IEC60068-2-32 (Free Fall)

Industry: IEC61000-6-2  
Power: IEC61850-3, IEEE1613  
Railway: EN50155, EN50121-4  
Traffic Control: NEMA TS-2

## Mechanical Drawing



## Ordering Information

K1EN1026 - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
Ports Distance Connector PS1 PS2

### Ports

4M-24T = 4 100Base-FX multi mode fiber ports, 24 10/100Base-TX RJ45 ports  
4S-24T = 4 100Base-FX single mode fiber ports, 24 10/100Base-TX RJ45 ports  
2M-16T = 2 100Base-FX multi mode fiber ports, 16 10/100Base-TX RJ45 ports  
2S-16T = 2 100Base-FX single mode fiber ports, 16 10/100Base-TX RJ45 ports  
24T = 24 10/100Base-TX RJ45 ports  
16T = 16 10/100Base-TX RJ45 ports

### Distance: Fiber Distance

1310-5 = 1310nm, 5km  
1310-40 = 1310nm, 40km  
1310-60 = 1310nm, 60km  
1550-80 = 1550nm, 80km

### Connector: Fiber Connector

SC = SC Connector  
ST = ST Connector  
FC = FC Connector

### PS1 & PS2: Power Supplies 1 & 2

XX = None (power supply 2 only)  
24DC = 18-36VDC  
220AC/DCW = 85-264VAC/77-300VDC

### Example Order Codes

K1EN1026-2M-24T-1310-5-SC-24DC-24DC  
2 single mode fiber ports with SC connectors, 1310nm 5km, 24 10/100Base TX RJ45 ports, and dual redundant 24DC(18-36VDC) power supplies