

KIEN1005G



- Green Ethernet solution with ultra low power consumption design
- As low as 3.4 watts full load power consumption
- 5 10/100/1000Base-TX ports
- Redundant AC/DC power inputs with wide voltage range
- EMC performance reaches industrial level 4

5G Port Full Gigabit

- IP40 protection class
- UL508, Class 1 Div 2, CE, FCC certificates









The KIEN1005G is Kyland new full Gigabit unmanaged industrial Ethernet switch. It is also a new member of ultra low power consumption Green Ethernet series, its full load power consumption is as low as 3.4 watts. The KIEN1005G supports a wide operating temperature range from -40 to $85^{\circ}\text{C}.$ It provides IP40 protection class and meets EMC industrial level 4 requirements.

The KIEN1005G switch provides 24DCW (18-72VDC) redundant power inputs. This switch is specially designed for harsh industrial environments certified by UL508 and UL Class 1 Div 2 certifications and it is your best option for economical industrial Gigabit Ethernet solution.



>>> Technical Specifications

Standard

IEEE 802.3i IEEE 802.3u IEEE 802.3ab IEEE802.3z

Switch Properties

MAC Table: 1K Packet Buffer: 1Mbit Packet Forwarding Rate: 7.4Mpps

Switching Delay: <5µs

Interface

Gigabit Ethernet Ports: 5 10/100/1000Base-TX RJ45 ports

LED

LEDs on Front Panel: Power LED: PWR1, PWR2 Interface LED: Link/ACT, Speed (RJ45 port)

Transmission Distance

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

Power Requirements

Power Input: 24DCW (18-72VDC) Power Terminal: 5-pin 5.08mm-spacing plug-in terminal block Power Consumption: 3.4W (full load)

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

Physical Characteristics

Housing: Metal, fanless Protection Class: IP40 Dimensions (W×H×D): 30×115×91.5 mm (1.18×4.53×3.60 in.) Weight: 0.76kg (1.676 pound) Mounting: DIN-Rail or Panel mounting

Unmanaged

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

357,000 hrs

Warranty

5 years

Approvals

UL508 Class 1 Div 2 CE, FCC

Industrial Standard

FCC CFR47 Part 15, EN55022/CISPR22, Class A

EMS:

IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)

IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)

IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV

IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV

IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)

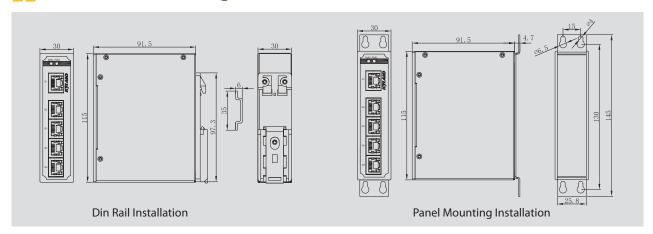
IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Machinery:

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

Industry: IEC61000-6-2 Railway: EN50155, EN50121-4

Mechanical Drawing



>>> Ordering Information

KIEN1005G -Ports PS

Ports

5GE = 5 10/100/1000Base-TX RJ45 ports

PS: Power Supply

24DCW = 18-72VDC, dual redundant power inputs

Example Order Codes

KIEN1005G-5GE-24DCW

5 10/100/1000Base-TX RJ45 ports, 18-72VDC, dual redundant power inputs