

KIEN1005G**5 Port full Gigabit Unmanaged Industrial Ethernet Switch**

- Green Ethernet Solution with ultra low power consumption design;
- As low as 5.3 watts full load power consumption;
- 5 10/100/1000Base-TX RJ45 ports;
- EMC performance reaches industrial level 4;
- IP40 protection class;
- Wide -40 to 85°C operating temperature;
- Rugged hardware design with UL508, UL Class 1 Div 2 certifications

**Overview**

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 5.3 watts. The KIEN1005G supports a wide operating temperature range from -40 to 85°C. It provides IP40 protection class and meets EMC industrial level 4 requirements.

The KIEN1005G switch provides 12VDC(9-36VDC), 24/48VDC(18-72VDC), 24VAC(13-50VAC) 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**

IEEE802.3
IEEE802.3u
IEEE802.3ab
IEEE802.3x

Switch Properties

MAC Table: 1K
Packet Buffer: 1Mbit
Throughput: 14.9Mpps

Interface

5 10/100/1000BaseTX Ethernet RJ45 ports

LED

Power LED:PWR1,PWR2
Interface LED: Link/ACT, Speed (RJ45 port)

Transmission Distance

Twisted Pair: 0-100m (standard CAT5, CAT5e network cable)

Power Requirements

Power Input:
12VDC (9-36VDC), 24/48VDC (18-72VDC), 24VAC (13-50VAC)

Power terminal:
5-pin 5.08mm-spacing plug-in terminal block

Power Consumption:
5.3 Watts (full load)

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

Physical Characteristics

Housing: Metal, fanless
Protection Class: IP40
Dimensions: 30×115×91.5 mm (W×H×D)
(1.18×4.52×3.60 in)
Weight: 0.7kg (1.543 pound)
Mounting: 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: 5 to 95% (non-condensing)

MTBF

350,000 hrs

Warranty

5 years

Approvals

Safety: UL508 (Pending)
Hazardous Location: Class 1 Div 2 (Pending)
EMC: CE, FCC

Industrial Standard

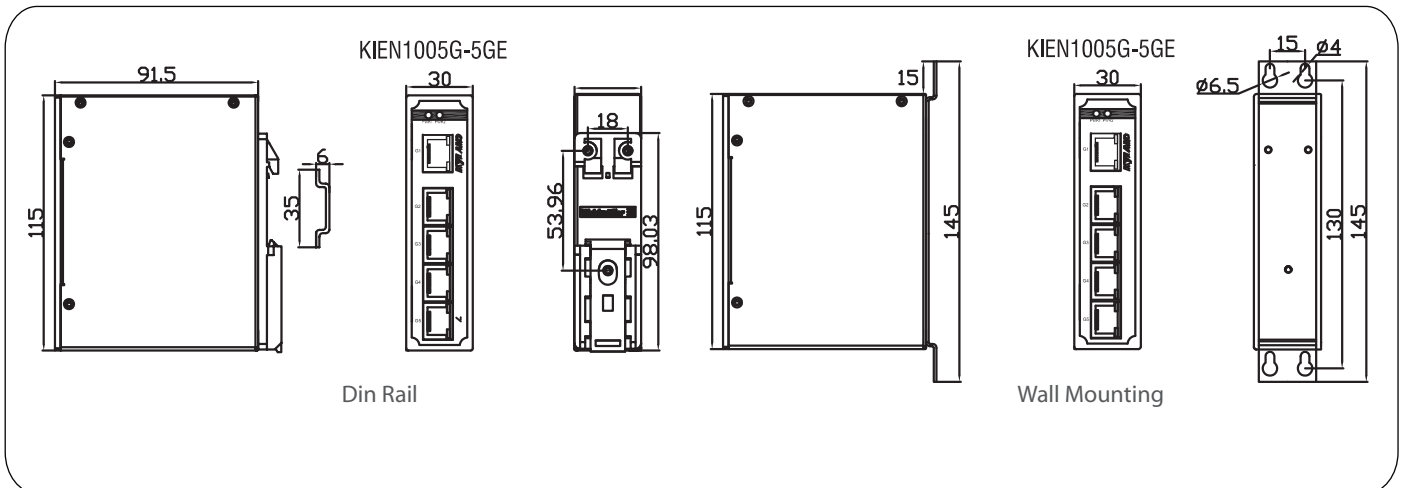
EMI:
FCC Part 15, CISPR (EN55022) class A

EMS:
IEC61000-4-2(ESD): contact discharge $\pm 8KV$, air discharge $\pm 15KV$
IEC61000-4-3(RS): 10V/m, 80MHz-2GHz
IEC61000-4-4(EFT): power line $\pm 4KV$; data line $\pm 2KV$
IEC61000-4-5(Surge) N-N: 2kV; N-G: 4kV (1.2/50us, 8/20us)
IEC61000-4-6(CS): 10V, 0.15 80MHz
IEC61000-4-16 common mode conduct interference immunity:
30V cont. 300V, 1s

Machinery
Shock: IEC68-2-27, duration of the half-sine pulse: 11ms, peak acceleration: 300m/s²
Free Fall: IEC68-2-32, Mass < 20Kg: 0.25m
Vibration: IEC68-2-6, vibration amplitude: 7mm, acceleration: 20-15, frequency range: 2-9HZ 9-200HZ 200-500HZ

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

Mechanical Drawing



Ordering Information

Please Select

Model	Wide Temperature (-40 to 85 °C)	Port Interface			Power Supply (Dual Power Inputs)		
		10/100/1000 BaseT(X)	100/1000 Base SFP	1000M Combo	12VDC (9-36VDC)	24/48VDC (18-72VDC)	24VAC (13-50VAC)
KIEN1005G-5GE	✓	5	—	—			

Accessories

DT-BGAZ-A-01 Wall mounting panel
DT-JJAZ-A-01 Rack mounting panel
DT-FCZ-RJ45-01 RJ45 dustproof cover

Please visit our website: www.kyland.cn for the latest updates.