

Opal5G

5G Port Entry-level Full Gigabit Unmanaged DIN-Rail Switches



» Overview

Opal5G series, Kyland produced 5-port unmanaged switches, are characterized by its full Gigabit interface, compact size, economical and plug-and-play design, generally used to connect the high bandwidth Ethernet in factory automation, petrochemical, ITS, and other applications. Opal5G support 5 10/100/1000Base-TX RJ45 ports, along with metal housing with IP30 protection class, thus ensuring fast and reliable data transmission in harsh industrial environments. The two DIP-switches located on the top of the device are used to enable/disable Broadcast Storm Protection (BSP) function and Jumbo frame transmission function, respectively. Opal5G provide both standard (-10°C to 60°C) and wide (-40°C to 75°C) operating temperature range models to meet different applications.

» Key Features

Support 5 10/100/1000Base-TX RJ45 ports

Setting jumbo frame transmission function (up to 10KB) by DIP-Switch

Both standard and wide operating temperature models are available

IP30 protection class

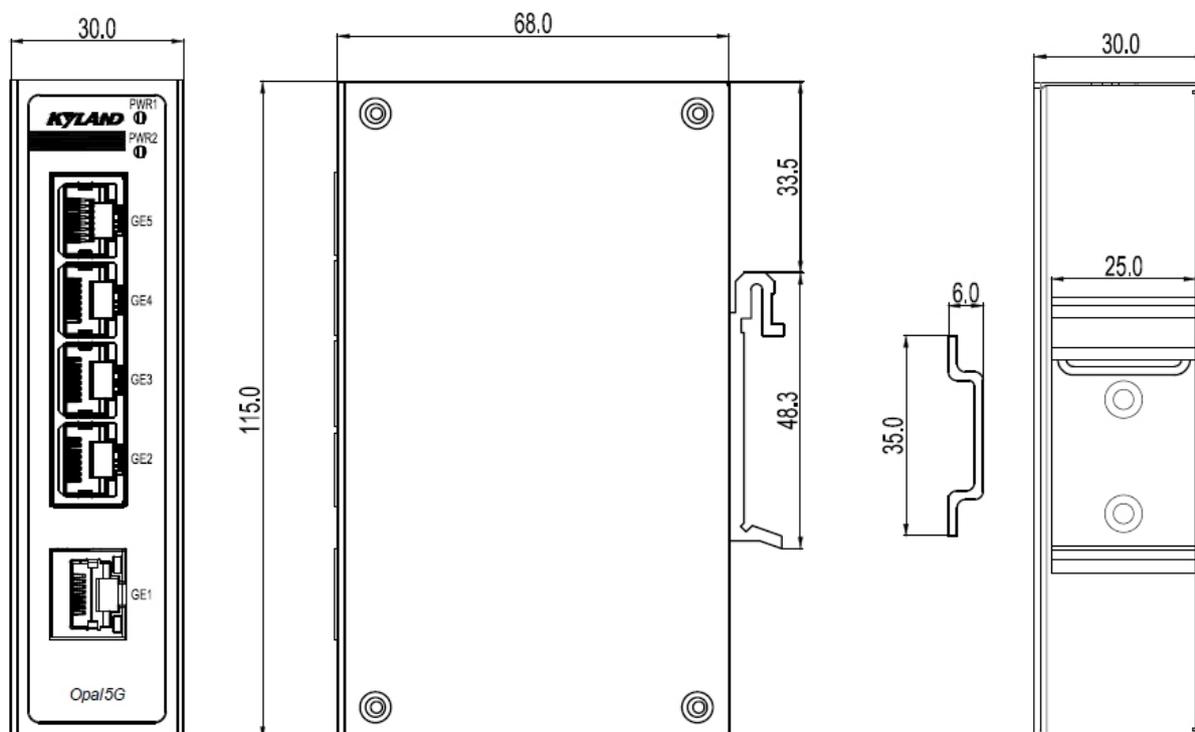
UL508, Class I Div 2, ATEX Zone 2, IECEx, CE, FCC

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» Product Specifications

Technical Specification	Standard	IEEE 802.3i (10Base-T) IEEE 802.3u (100Base-TX) IEEE 802.3ab(1000Base-T)
	Switch Properties	MAC Table: 8K Packet Buffer: 1Mbit Packet Forwarding Rate: 7.4 Mpps Switching Delay: <5μs Jumbo Frame Size: 10KB
	Interface	Gigabit Port: 10/100/1000Base-T(X), RJ45 port
	LED	LEDs on Front Panel Power LED: PWR1, PWR Interface LED: Link/ACT, Speed (RJ45 port)
	DIP-Switch	Enable/Disable broadcast storm protection function Enable/Disable Jumbo frame transmission function (up to 10KB)
	Power Requirements	Power Input: 12-48VDC/18-30VAC Power Terminal: 4-pin 5.08mm-spacing plug-in terminal block Power Consumption: <6w Overload Protection: Support Reverse Protection: Support Redundancy Protection: Support
	Physical Characteristics	Housing: Metal Cooling: Natural convection, fanless Protection Class: IP30 Dimension: 30mm×115mm×68mm (W×H×D) Weight: 0.3Kg Mounting: DIN-Rail or Panel mounting
	Environmental Limits	Operating Temperature: -10°C to +60°C(Opal5G-E) -40°C to +75°C Storage Temperature: -40°C to +85°C Ambient Relative Humidity: 5°C 95% (non-condensing)
	Quality Assurance	MTBF: 3,300,013 hrs Warranty: 5 years
	Approvals	UL508, Class I Div 2 , ATEX Zone 2, IECEx, CE, FCC
Industry Standard	EMI: FCC CFR47 Part 15,EN55022/CISPR22,Class A EMS: IEC61000-4-2(ESD): ±6kV (contact), ±8kV (air) IEC61000-4-3(RS): 10V/m (80MHz–2GHz) IEC61000-4-4(EFT): Power Port: ±2kV; Data Port: ±1kV IEC61000-4-5(Surge): Power Port: ±1kV/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)	

» Mechanical Drawing



» Ordering Information

Opal5G-X-Ports-PS

X	Operating temperature range
E	-10 to +60°C operating temperature
None	-40 to +75°C operating temperature
Ports	
5GE	5X10/100/1000Base-T(X) RJ45 ports
PS	
LV-LV	12-48VDC/18-30VAC, redundant power inputs

Accessories

DT-BGAZ-13	Panel for Panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port

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