Opal5G





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

- Support 5 10/100/1000Base-TX RJ45 ports
- Setting jumbo frame transmission function (up to 10KB) by
- Both standard and wide operating temperature models are available
- IP30 protection class
- UL508 (Pending), Class I Div 2 (Pending), ATEX Zone 2 (Pending), IECEx (Pending), CE, FCC





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.



Technical Specification

Technical Parameters

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

Dimension 30mm×115mm×68mm (W×H×D)

Weight 0.3Kg

Mounting

DIN-Rail or Panel mounting

Environmental Limit 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)

Industrial Ethernet Solutions

Warranty

MTBF 3,241,152 hrs Warranty 5 years

Approvals

UL508 (Pending), Class I Div 2 (Pending), ATEX Zone 2 (Pending), IECEx (Pending), CE, FCC

Industry Standard

▼ FCC CFR47 Part 15,EN55022/CISPR22,Class A

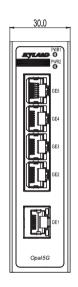
EMS

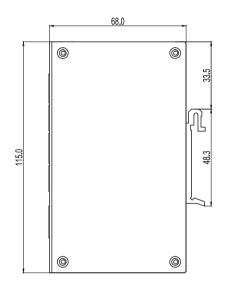
- ▼ IEC61000-4-2(ESD): ±6kV (contact), ±8kV (air)
- ▼ IEC61000-4-3(RS): 10V/m (80MHz 2GHz)
- ▼ IEC61000-4-4(EFT): Power Port: ±2kV; Data Port: ±1kV
- ▼ IEC61000-4-5(Surge): Power Port: ±1kV/DM, ±2kV/CM; Data Port: ±2kV
- ▼ IEC61000-4-6(CS): 10V (150kHz 80MHz)

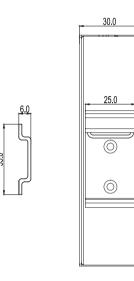
Machinery

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

>> Mechanical Drawing







>>> Ordering Information

	Opal5G-Ports-PS1-PS2	
	Opal5G-E-Ports-PS1-PS2	
	Operating temperature range	
Е	-10°C-+60°C operating temperature	
None	-40°C-+75°C operating temperature	
Ports		
5GE	5X10/100/1000Base-T(X) RJ45 ports	
PS		
LV-LV	12-48VDC/18-30VAC, redundant power inputs	



Optional Accessories

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