Opal10G





10G Port Entry-level Full Gigabit **Unmanaged DIN-Rail Switches**

- 2 Gigabit SFP slots, 8 10/100/1000Base-T(X) ports
- Setting jumbo frame transmission function (up to 9.6KB) 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

Opal10G series, Kyland produced 10-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. Opal10G support 2 Gigabit SFP ports and up to 8 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. Opal10G 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)
- ▼ IEEE 802.3z (1000Base-X)

Switch Properties

MAC Table Packet Buffer 4Mbit Packet Forwarding Rate 14.9Mpps Switching Delay <5us Jumbo Frame Size 9.6KB

Interface

Gigabit Port

- ▼ 1000Base-X, SFP slot
- ▼ 10/100/1000Base-T(X), RJ45 port

LED

LEDs on Front Panel

- ▼ Power LED: PWR1, PWR2
- ▼ Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT (Fiber port)

DIP-Switch

Enable/Disable broadcast storm protection Enable/Disable Jumbo frame transmission function (up to 9.6KB)

Power Requirements

Power Input 12-48VDC/18-30VAC

Power Terminal

 4-pin 5.08mm-spacing plug-in terminal block Power Consumption Overload Protection Support Reverse Protection Support Redundancy Protection Support

Physical Characteristics

Housing Metal

Cooling Natural convection, fanless

Protection Class

Dimension 54mm×134mm×106mm (W×H×D)

Weight 0.5Kg

DIN-Rail or Panel Mounting Mounting

Environmental Limits

Operating Temperature

- ▼ -10 to +60°C (Opal10G-E)
- ▼ -40°C to +75°C

-40°C to +85°C Storage Temperature

Ambient Relative Humidity 5 - 95% (non-condensing)

Warranty

MTBF 2,497,305 hrs Warranty 5 years

Approvals

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

Industrial Standard

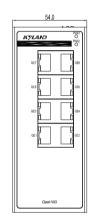
▼ FCC CFR47 Part 15,EN55022/CISPR22,Class A

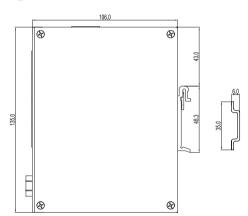
- ▼ IEC61000-4-2(ESD): ±6kV (contact), ±8kV (air)
- ▼ IEC61000-4-3(RS): 10V/m (80MHz 2GHz)
- ▼ IEC61000-4-4(EFT): Power Port: ±2kV; Data Port: ±1kV
- ▼ IEC61000-4-5(Surge): Power Port: ±1kV/DM, ±2kV/CM; Data Port: ±1kV
- ▼ IEC61000-4-6(CS): 10V (150kHz 80MHz)

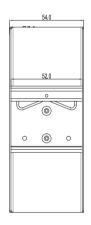
Machinery

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

Mechanical Drawing







>> Ordering Information

	Opal10G-X-Ports-PS
X	Operating temperature range
E	-10 °C-+60°C operating temperature
None	-40 °C-+75 °C operating temperature
Ports	
2GX8GE	2 X 1000Base-X SFP slots, 8 X 10/100/1000Base-T(X) RJ45 ports
8GE	8X10/100/1000Base-T(X) RJ45 ports
PS	
LV-LV	12-48VDC/18-30VAC, redundant power inputs

Optional Accessories

Model	Description
Gigabit SFP module	Please refer to the Gigabit SFP module ordering list
DT-BGAZ-11	Panel for Panel mounting
DT-FC7-R145-01	Dustproof cover for RI45 port