

# Opal10

## 6+4G Port Entry-level Unmanaged DIN-Rail Switch



### » Overview

Opal10 unmanaged DIN-Rail switch is specially designed for automation control applications. It is equipped with up to 6 10/100Base-TX RJ45 ports, 2 10/100/1000Base-TX RJ45 ports and 2 SFP ports which can be set to be 100M or 1000M by DIP-Switch located on the top of the switch, making the applications more flexible. Opal10 supports redundant power inputs, metal housing with IP30 protection class, thus ensuring fast and reliable data transmission in harsh industrial environments. Opal10 provides both standard (-10°C to 60°C) operating temperature range model and wide (-40°C to 75°C) operating temperature range models to meet different needs of applications.

### » Key Features

Support 2 10/100/1000Base-TX ports, 2 Gigabit SFP ports and 6 10/100Base-TX ports

Setting SFP port speed (100M/1000M) by DIP Switch

Both standard and wide operating temperature models are available

IP30 protection class

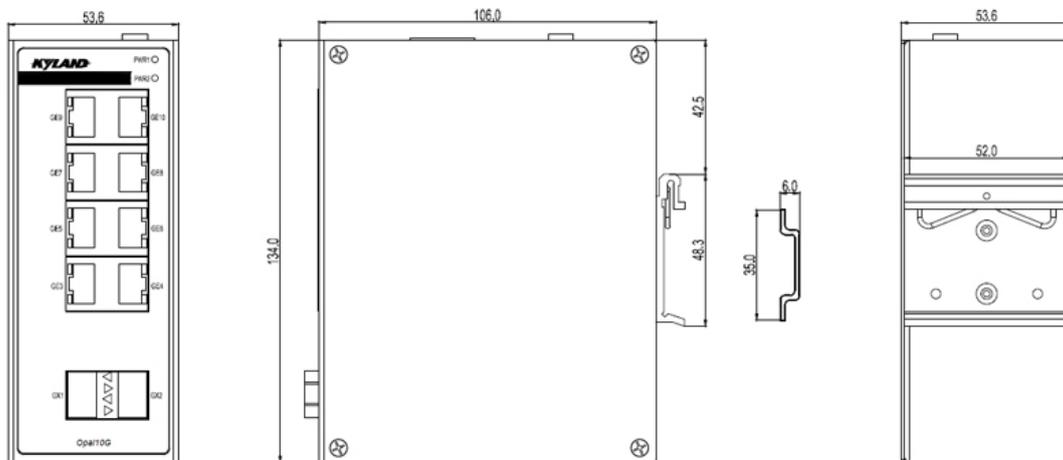
UL508, Class I Div 2, ATEX Zone 2, IECEx, CE, FCC

**» Product Specifications**



Technical Specification	Standard	IEEE 802.3i (10Base-T) IEEE 802.3u (100Base-TX and 100Base-FX) IEEE 802.3ab(1000Base-T) IEEE 802.3z (1000Base-X)
	Switch Properties	MAC Table: 8K Packet Buffer: 4Mbit Packet Forwarding Rate: 4.2Mpps Switching Delay:<10µs
	Interface	Gigabit Port: 1000Base-X, SFP slot 10/100/1000Base-T(X), RJ45 port Fast Ethernet Port: 100Base-X, SFP slot 10/100Base-T(X), RJ45 port
	LED	LED on Front Panel Power LED: PWR1, PWR2 Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT, Speed (Fiber port)
	DIP-Switch	Enable/Disable broadcast storm protection Set the SFP port speed to 100M or 1000M
	Power Requirements	Power Input: 12-48VDC/18-30VAC Power terminal: 4-pin 5.08mm-spacing plug-in terminal block Power Consumption:<10w Overload protection: Support Reverse protection: Support Redundancy protection: Support
	Physical Characteristics	Housing: Metal Cooling: Natural convection, fanless Protection Class: IP30 Dimension: 54mm×134mm×106mm (W×H×D) Weight: 0.5Kg Mounting: DIN-Rail or Panel mounting
	Environmental Limits	Operating Temperature: -10°C to +60°C (Opal10-E) -40°C to +75°C Storage Temperature: -40°C to +85°C Ambient Relative Humidity: 5-95% (non-condensing)
	Quality Assurance	MTBF: 2,486,573 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

### Opal10-X-Ports-PS

X

**Operating temperature range**

E

-10 -+60°C operating temperature

None

-40 -+75°C operating temperature

### Ports

2GX2GE6T

2 X 1000Base-X, SFP slots, 2 X 10/100/1000Base-T(X) RJ45 ports;  
6X10/100Base-T(X) RJ45 ports

### PS

LV-LV

12-48VDC/18-30VAC, redundant power inputs

### Accessories

Gigabit SFP module

Please refer to the Gigabit SFP module ordering list

100Base-X SFP module

Please refer to the 100Base-X SFP module ordering list

DT-BGAZ-11

Panel for Panel mounting

DT-FCZ-RJ45-01

Dustproof cover for RJ45 port

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