Opal10





6+4G Port Entry-level Unmanaged **DIN-Rail Switches**

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





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.



>>> Technical Specification

Technical Parameters

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 Packet Buffer 4Mhit Packet Forwarding Rate 4.2Mpps Switching Delay $<10 \mu s$

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

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

Metal Housing

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 Ambient Relative Humidity -40°C to +85°C

5-95% (non-condensing)

Warranty

MTBF 2,093,638 hrs Warranty 5 years

Approvals

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

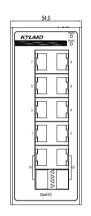
Industry Standard

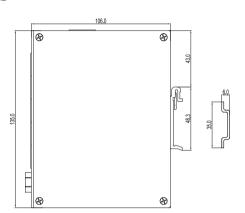
▼ FCC CFR47 Part 15, EN55022/CISPR22, Class A

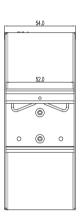
- ▼ IEC61000-4-2(ESD): ±6kV (contact), ±8kV (air)
- ▼ IEC61000-4-3(RS): 10V/m (80MHz 2GHz)
- ▼ IEC61000-4-4(EFT): Power Port: ±2kV; Data Port: ±1kV
- ▼ IEC61000-4-5(Surge): Power Port: ±1kV/DM, ±2kV/CM; Data Port: ±2kV
- ▼ IEC61000-4-6(CS): 10V (150kHz 80MHz)

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

>> Mechanical Drawing







Ordering Information

	Opal10-X-Ports-PS1-PS2
хо	perating temperature range
Е	-10°C-+60°C operating temperature
None	-40°C-+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

Model	Description
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