Opal5





5 Port Entry-level Unmanaged **DIN-Rail Switches**

- 1 Fast Ethernet fiber/RJ45 optional port, 4 10/100Base-T(X)
- Both standard and wide operating temperature models are available
- IP30 protection class
- UL508, Class I Div 2, ATEX Zone 2, IECEx, CE, FCC







Overview

Opal5 unmanaged 5-port switch is specially designed for automation control applications. It is equipped with one fast Ethernet fiber/RJ45 optional port and 4 10/100Base-TX RJ45 ports. Opal5 supports SC/ST/ SFP type fiber ports, redundant power inputs, metal housing with IP30 protection class, thus ensuring fast and reliable data transmission in harsh industrial environments. Opal5 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 applications.



>>> Technical Specification

Technical Parameters

Standard

- ▼ IEEE 802.3i (10Base-T)
- ▼ IEEE 802.3u (100Base-TX and100Base-FX)

Switch Properties

MAC Table 2K Packet Buffer 1Mbit Packet Forwarding Rate 0.75Mpps Switching Delay <10µs

Interface

Fast Ethernet Port

- ▼ 100Base-FX, SM/MM, SC/ST connector
- ▼ 100Base-X, SFP slot
- ▼ 10/100Base-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

Power Requirements

Power Input 12-48VDC/18-30VAC

Power Terminal

▼ 4-pin 5.08mm-spacing plug-in terminal block Power Consumption <3.4W Overload Protection Support Support Reverse Protection Redundancy Protection Support

Physical Characteristics

Housing

Cooling Natural convection, fanless

Protection Class IP30

Dimension 30mm×115mm×68mm (W×H×D)

Weight

DIN-Rail or Panel Mounting Mounting

Environmental Limits

Operating Temperature

- -10°C to +60°C (Opal5-E)
- ▼ -40°C to +75°C

Storage Temperature -40°C to +85°C

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

Warranty

MTBF 4.500.764 hrs Warranty 5 years

Approvals

UL508, Class I Div 2, ATEX Zone 2, IECEx, CE, FCC (The certificate status for 1SFP4T models are pending.)

Industrial Standards

▼ 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)

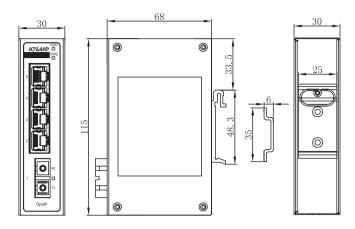
- ▼ IEC61000-4-4(EFT): Power Port: ±2kV; Data Port: ±1kV
- ▼ IEC61000-4-5(Surge): Power Port: ±1kV/DM, ±2kV/CM; Data Port: ±1kV
- ▼ IEC61000-4-6(CS): 10V (150kHz-80MHz)

Machinery

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



Mechanical Drawing



Ordering Information

	Opal5-X-Ports-Connector-PS
	Operating temperature range
Е	-10°C-+60°C operating temperature
None	-40°C-+75°C operating temperature
Ports	
5T	5×10/100Base-T(X) RJ45 ports
1S4T	1×100Base-FX, single mode fiber port; 4×10/100Base-T(X) RJ45 ports
1M4T	1×100Base-FX, multi mode fiber port; 4×10/100Base-T(X) RJ45 ports
1SFP4T	1×100Base-X,SFP slot; 4×10/100Base-T(X) RJ45 ports
Connector	100M fiber port specifications
SC05	SC connector, multi-mode, 1310nm, 5km
ST05	ST connector, multi-mode, 1310nm, 5km
SC40	SC connector, single-mode, 1310nm, 40km
ST40	ST connector, single-mode, 1310nm, 40km
SC60	SC connector, single-mode, 1310nm, 60km
SC80	SC connector, single-mode, 1550nm, 80km
None	No 100M fiber port
PS	
LV-LV	12-48VDC/18-30VAC, redundant power inputs

Accessories

Model	Description
100Base-X SFP module	Please refer to the 100Base-X SFP module ordering list
DT-BGAZ-13	Panel for Panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port