# **Opal8**





## 8 Port Entry-level Unmanaged **DIN-Rail Switches**

- 2 Fast Ethernet fiber/RJ45 optional ports, 6 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

Opal8 unmanaged 8-port switch is specially designed for automation control applications. It is equipped with two fast Ethernet fiber/RJ45 optional ports and 6 10/100Base-TX RJ45 ports. Opal8 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. Opal8 provides both standard (-10 to 60°C) operating temperature range model and wide (-40 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)

#### **Switch Properties**

MAC Table 2K Packet Buffer 1Mbit Packet Forwarding Rate 1.2Mpps 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**

12-48VDC/18-30VAC Power Input Power Terminal

4-pin 5.08mm-spacing plug-in terminal block Power Consumption <46W Overload Protection Support Reverse Protection Support Redundancy Protection Support

#### **Physical Characteristics**

Housina Metal

Cooling Natural convection, fanless

Protection Class IP30

46mm×115mm×68mm(W×H×D) Dimension

Weight 0.32Kg

Mounting DIN-Rail or Panel Mounting

#### **Environmental Limits**

Operating Temperature

- ▼ -10°C to +60°C (Opal8-E)
- ▼ -40°C to +75°C

Storage Temperature -40°C to +85°C

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

### Warranty

MTBF 4.044.813 hrs Warranty 5 years

#### **Approvals**

UL508,Class I Div 2, ATEX Zone 2, IECEx, CE, FCC (The certificate status for 1SFP7T and 2SFP6T models are pending.)

#### **Industrial Standard**

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

#### EMS

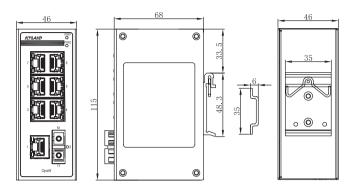
- ▼ IEC61000-4-2(ESD): ±6kV (contact), ±8kV (air)
- ▼ IEC61000-4-3(RS): 10V/m (80MHz-2GHz)
- ▼ IEC61000-4-4(EFT): Power Port: ±2kV; Data Port: ±1kV
- ▼ IEC61000-4-5(Surge): Power Port: ±1kV/DM, ±2kV/CM; Data Port: ±1kV
- ▼ IEC61000-4-6(CS): 10V (150kHz 80MHz)

#### Machinery

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



## Mechanical Drawing



## Ordering Information

	Opal8-X-Ports-Connector-PS
хо	perating temperature range
E	-10°C-+60°C operating temperature
None	-40°C-+75°C operating temperature
Ports	
8T	8×10/100Base-T(X) RJ45 ports
1S7T	1×100Base-FX, single mode fiber port; 7×10/100Base-T(X) RJ45 ports
1M7T	1×100Base-FX, multi mode fiber port; 7×10/100Base-T(X) RJ45 ports
1SFP7T	1×100Base-X, SFP slot; 7×10/100Base-T(X) RJ45 ports
2S6T	2×100Base-FX, single mode fiber ports; 6×10/100Base-T(X) RJ45 ports
2M6T	2×100Base-FX, multi mode fiber ports; 6×10/100Base-T(X) RJ45 ports
2SFP6T	2×100Base-X, SFP slots; 6×10/100Base-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-10	Panel for Panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port