Opal8
8 Port Entry-level Unmanaged DIN-Rail Switches

▶ 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℃) operating temperature range model and wide (-40 to 75℃) operating temperature range models to meet different needs of applications.
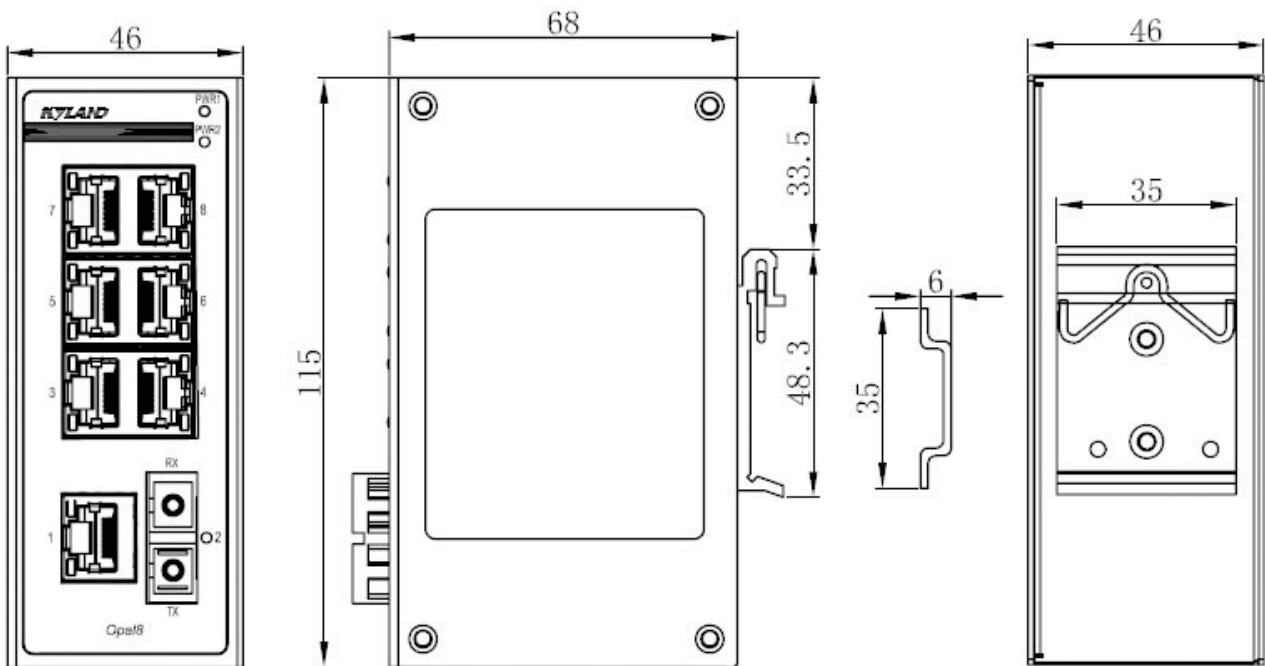
▶ Key Features

2 Fast Ethernet fiber/RJ45 optional ports, 6 10/100Base-T(X) ports
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)
	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	Power Input: 12-48VDC/18-30VAC Power Terminal: 4-pin 5.08mm-spacing plug-in terminal block Power Consumption:<4.6w Overload Protection: Support Reverse Protection: Support Redundancy Protection: Support
	Physical Characteristics	Housing: Metal Cooling: Natural convection, fanless Protection Class: IP30 Dimension: 46mm×115mm×68mm(W×H×D) 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)
	Quality Assurance	MTBF: 4,044,813 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: ±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

X	Operating temperature range
E	-10 to +60°C operating temperature
None	-40 to +75°C operating temperature

Ports	
8T	8 10/100Base-T(X) RJ45 ports
1S7T	1x100Base-FX, single mode fiber port; 7x10/100Base-T(X) RJ45 ports
1M7T	1x100Base-FX, multi mode fiber port; 7x10/100Base-T(X) RJ45 ports
1SFP7T	1 100Base-X, SFP slot; 7 10/100Base-T(X) RJ45 ports
2S6T	2x100Base-FX, single mode fiber port; 6x10/100Base-T(X) RJ45 ports
2M6T	2x100Base-FX, multi mode fiber port; 6x10/100Base-T(X) RJ45 ports
2SFP6T	2 100Base-X, SFP slot; 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

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