

**Product Name: Opal5S****Product Description: 5 Port Entry-level Unmanaged DIN-Rail PoE Switch****Type: Industrial Ethernet Switch/ DIN-Rail PoE Unmanaged Ethernet Switch****Product Picture:****Overview**

Opal5S is unmanaged 5-ports PoE switch, providing 1 10/100Base-T(X) port and 4 10/100Base-TX PoE ports compliant with IEEE802.3at/af. While transmitting data over the cable, each PoE port can output 30 watts to PoE terminals directly, eliminating the need for additional wiring. Opal5S supports wide operating temperature range from  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ , metal housing with IP30 protection class and redundant power inputs, becoming an economical and harsh-environment-resistant solution for the ITS, video surveillance and other automation applications.

**Feature**

- ◆ 1 10/100Base-T(X) port and 4 10/100Base-T(X) PoE ports compliant with 802.3at/af
- ◆ Support PD detection and PD classification
- ◆ Operating temperature is  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$
- ◆ IP30 protection class
- ◆ CE (ongoing), FCC (ongoing)

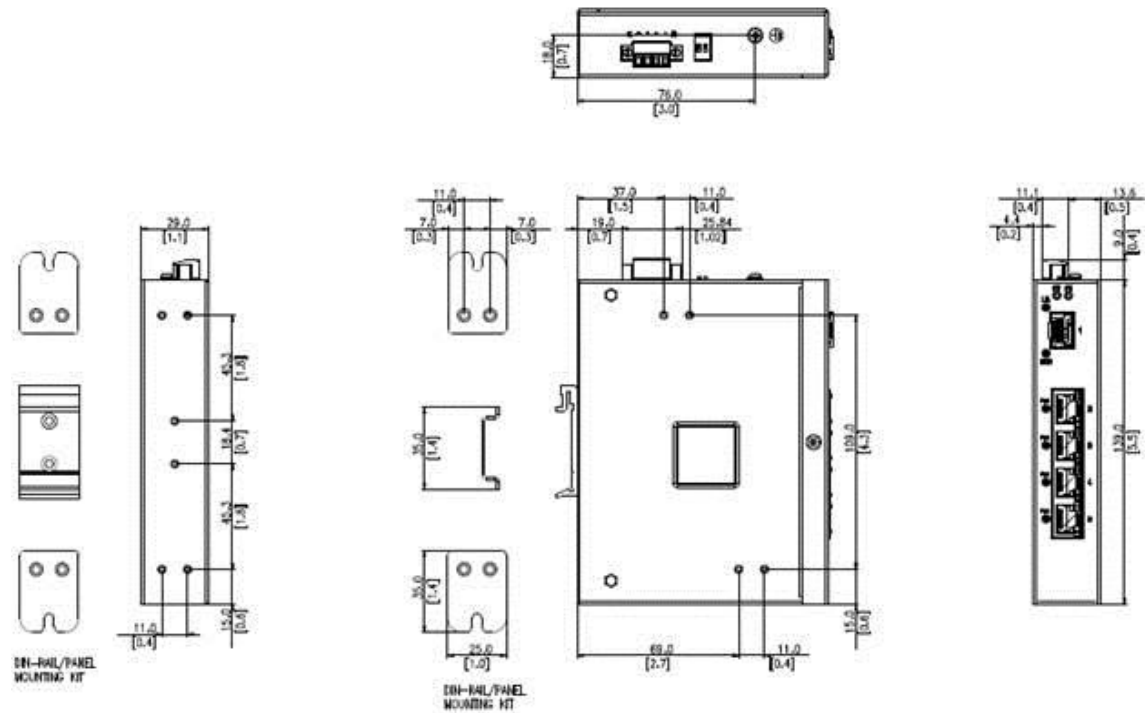
**Technical Specification**

Technical Parameter	Standard	IEEE 802.3i, IEEE 802.3u, IEEE 802.3af, IEEE 802.3at
Switch Properties	MAC Table	2K
	Packet Buffer	1Mbit
	Packet Forwarding Rate	1.5Mpps
	Switching Delay	$<15\mu\text{s}$

	Jumbo Frame	9K
Interface	Port	10/100Base-T(X), RJ45 port
	802.3at PoE Port	<ul style="list-style-type: none"> <li>Each PoE port provides max 30W feed power, with 44-57VDC and max current 720mA</li> <li>V+ for pin 1, 2 and V- for pin 3, 6 (End-Span PSE)</li> </ul>
LED	LEDs on Front Panel	Power LED:PWR1,PWR2 Interface LED:Link/ACT PoE Status LED: POE(2-5)
Power Requirement	Power Input	54-57VDC for PoE+ 48-57VDC for PoE
	Power Consumption	<3W (no PD)
	PoE overload protection	Support
	Reverse protection	Support
	Redundancy protection	Support
Physical Characteristics	Housing	Metal
	Cooling	Natural convection, fanless
	Protection Class	IP30
	Dimension	29mm×139mm×107mm(W×H×D)
	Weight	<0.5Kg
	Mounting	DIN-Rail or Panel Mounting
Environmental Limit	Operating Temperature	-40°C~+75°C
	Storage Temperature	-40°C~+85°C
	Ambient Relative Humidity	5~95% (non-condensing)
Warranty	MTBF	>25years
	Warranty	5 years
Certificates	CE (ongoing), FCC (ongoing)	
Industrial 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	IEC60068-2-27 (Vibration)

		IEC60068-2-32 (Shock)
		IEC60068-2-6 (Free Fall)

**Mechanical Drawing**



**Ordering Information**

Product Models	Opal5S-Ports-PS1-PS2
Code Definition	Ordering Code
Ports	1T4P=1x10/100Base-T(X) port; 4x10/100Base-T(X) PoE ports
PS1-PS2: (Redundant Power Inputs)	L10-L10=48VDC (48-57VDC), redundant power inputs

## Change History

Date	Version	Change Description	Change by
2016.9.29	V1.0	Creation	Mike Zou