

Opal5GS



Layer 2 Managed Profinet DIN-Rail Switch

- 1 100/1000 SFP port and 4 10/100/100Base-TX PoE ports compliant with 802.3at/af
- Support PD detection and PD classification
- Operating temperature is -40°C to 75°C
- IP30 protection class
- UL61010(ongoing), Class 1 Division 2(ongoing), CE, FCC



Overview

Opal5GS series are unmanaged 5-port PoE switches, providing 1 100/1000 SFP port and 4 10/100/1000Base-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. Opal5GS supports wide operating temperature range from -40°C to 75°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.

Technical Specification

Technical Parameters

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	<15us
Jumbo frame	9K

Interface

Port

- ▼ 100/1000 SFP
- ▼ 10/100/1000Base-T(X), RJ45 port

802.3at PoE Port

- ▼ Each PoE port provides max 30W feed power, with 44-57VDC and max current 720mA
- ▼ V+ for pin 1, 2 and V- for pin 3, 6 (End-Span PSE)

LED

Front panel LED

- ▼ Power LED: PWR1, PWR2
- ▼ Interface LED: Link/ACT
- ▼ PoE Status LED: POE(2-5)

Power

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 Classy	IP30
Dimension	
▼ 29mm×139mm×107mm(W×H×D)	
Weight	0.375Kg
Mounting	
▼ DIN-Rail or Panel Mounting	

Environmental Limits

Operating Temperature	-40°C to +75°C
Storage Temperature	-40°C to +85°C
Ambient Relative Humidity	5- 95% (non-condensing)

Warranty

MTBF	>25years
Warranty	5 years

Approvals

UL61010(ongoing), Class 1 Division 2(ongoing), CE, FCC

Industrial Standards

EMI

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

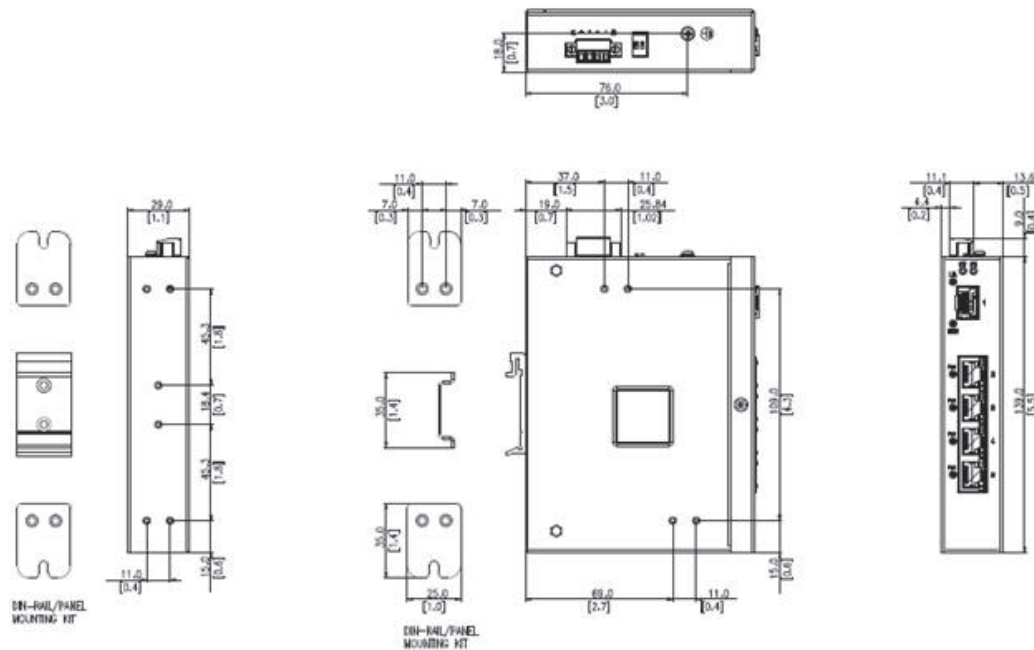
EMS

- ▼ IEC61000-4-2(ESD) $\pm 6\text{kV}$ (contact), $\pm 8\text{kV}$ (air)
- ▼ IEC61000-4-3(RS) 10V/m(80MHz~2GHz)
- ▼ IEC61000-4-4(EFT) Power Port: $\pm 2\text{kV}$;Data Port: $\pm 1\text{kV}$
- ▼ IEC61000-4-5(Surge)
- ▼ Power Port: $\pm 1\text{kV/DM}$, $\pm 2\text{kV/CM}$;Data Port: $\pm 2\text{kV}$
- ▼ 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	Opal5GS-Ports-PS1-PS2
Code Definition	Ordering Code
Port	
1GX4GP1	x100/1000Base-X, SFP port; 4x10/100/1000Base-T(X) PoE ports
1GE4GP	1x10/100/1000Base-T(X) port; 4x10/100/1000Base-T(X) PoE ports
PS1-PS2(Redundant Power Inputs)	
L10-L10	48VDC (48-57VDC), redundant power inputs