

# Opal5GS

## Entry-level Unmanaged DIN-Rail PoE Switch



### » 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.

### » Key Features

1 100/1000 SFP port and 4 10/100/1000Base-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

### » Product Specifications

#### >Technical Specification

**-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 $\mu$ s

Jumbo Frame 9K

**-Interface**

Port

100/1000 SFP

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

802.3at/af 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**

LEDs on Front Panel

Power LED: PWR1, PWR2

Interface LED: Link/ACT

PoE Status LED: POE(2-5)

**-Power Requirements**

Power Input

54-58VDC for PoE+

48-58VDC 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 0.375Kg

Mounting DIN-Rail or Panel Mounting

#### **-Environmental Limits**

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

#### **-Approvals**

UL61010, Class 1 Division 2, CE, FCC

#### **-Industrial Standards**

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)

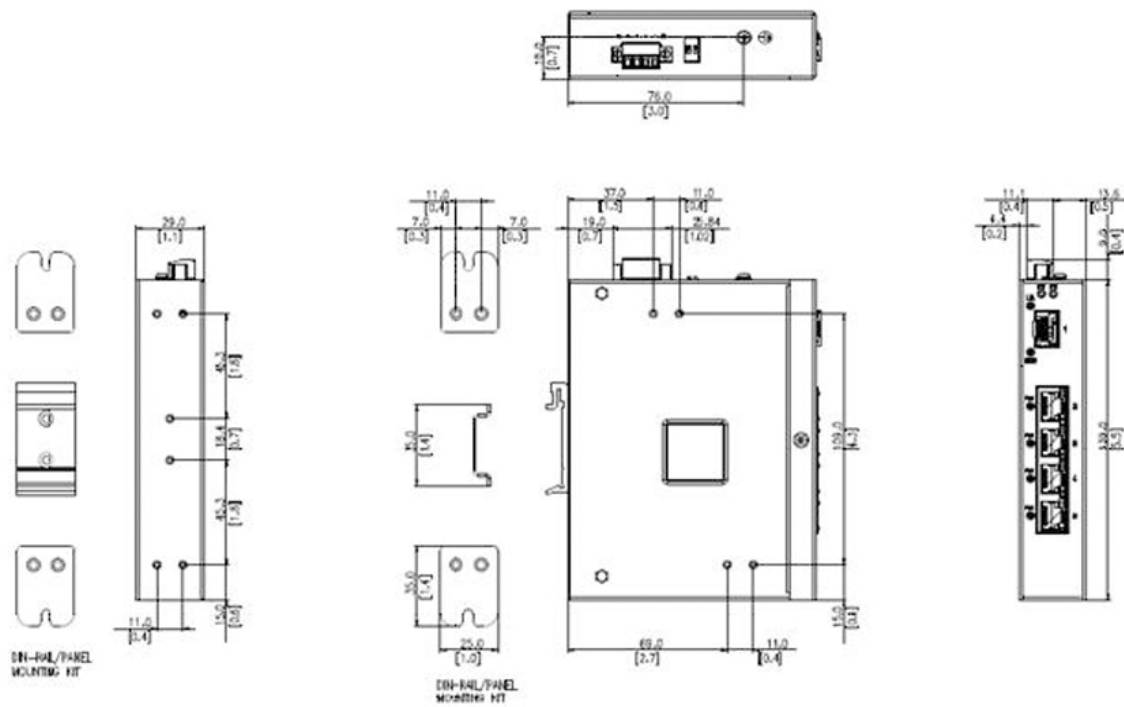
Machinery

IEC60068-2-27 (Vibration)

IEC60068-2-32 (Shock)

IEC60068-2-6 (Free Fall)

## **Mechanical Drawing**



## » Ordering Information

- Opal5GS-1GX4GP-L10-L10 1x100/1000Base-X, SFP port; 4x10/100/1000Base-T(X) PoE ports, 48VDC (48-57VDC), redundant power inputs
- Opal5GS-1GE4GP-L10-L10 1x10/100/1000Base-T(X) port; 4x10/100/1000Base-T(X) PoE ports, 48VDC (48-57VDC), redundant power inputs

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