Opal5GS

5 Port Entry-level Unmanaged DIN-Rail PoE 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 classs
- UL61010(ongoing), Class 1 Division 2(ongoing), CE, FCC

Overview

Opal5GS series are Kyland produced 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 Specifications

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	<15μs
Jumbo Frame	9K

Interface

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

802.3af 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

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

Power Requirements

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	0.375Kg
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)

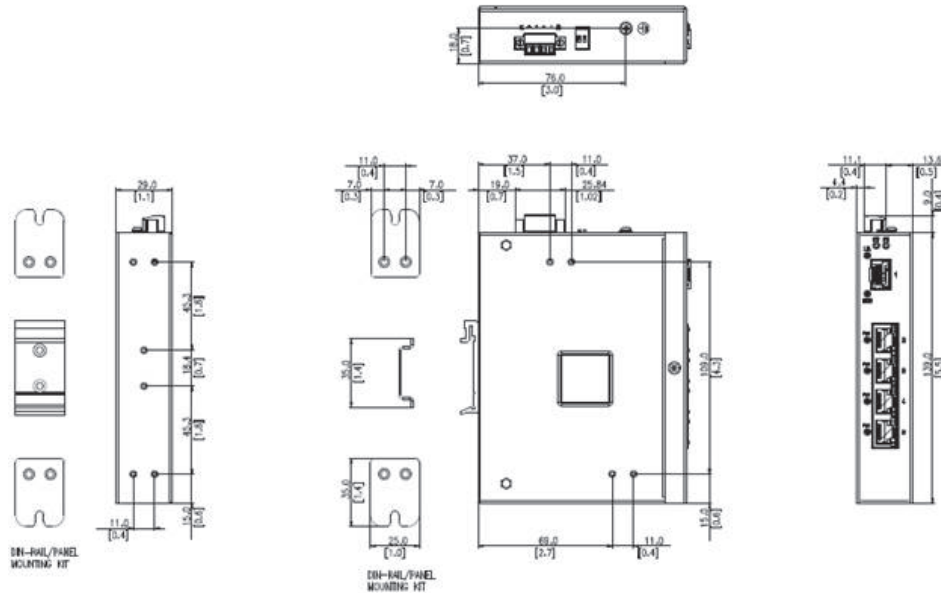## Quality Assurance

MTBF   >25years
Warranty   5 years

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:±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

Physical Characteristics

Product Models	Opal5GS-Ports-PS1-PS2
Code Definition	Ordering Code
Ports	
	1GX4GP=1×100/1000Base-X, SFP port; 4x10/100/1000Base-T(X) PoE ports
	1GE4GP=1x10/100/1000Base-T(X) port; 4x10/100/1000Base-T(X) PoE ports
	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