

Opal10GS

10G/8G port unmanaged DIN-Rail PoE switches



» Overview

Opal10GS series are unmanaged 8/10-port PoE switches, providing 8 10/100/1000Base-TX PoE ports compliant with IEEE802.3at/af, and 2 1000M SFP ports which are optional. While transmitting data over the cable, each PoE port can output 30 watts to PoE terminals directly, eliminating the need for additional wiring. Opal10GS 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, transportation and other automation applications.

» Key Features

8 10/100/1000Base-TX PoE ports compliant with IEEE802.3at/af, and 2 1000MSFP ports which are optional

Support PD detection and PD classification

Operating temperature is -40°C to 75°C

IP30 protection class

CE, FCC

» Product Specifications

>Technical Specification

-Technical Parameter

Standard IEEE 802.3i,IEEE 802.3u,IEEE 802.3af, IEEE 802.3at

-Switch Properties

MAC Table 16K

Packet Buffer 2Mbit

Packet Forwarding Rate 14.8Mpps

Switching Delay <10 μ s

Jumbo Frame 10KByte

-DIP Switches

DIP Switches I:

ON: Enable broadcast storm protection

OFF: Disable broadcast storm protection

DIP Switches II:

ON: Enable Jumbo Frame transpond

OFF: Disable Jumbo Frame transpond

-Interface

Port 1000Base-X SFP port

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

802.3af/at PoE Port Each PoE port provides max 30W feed power

V+ for pin 1, 2 and V- for pin 3,6(End-Span PSE)

Ethernet port support half duplex and full duplex

-LED

LEDs on Front Panel Power LED:PWR1,PWR2

Interface LED:Link/ACT,Speed(Copper port GE3-GE10/GE1-GE8);Link/ACT(SFP port GX1-GX2)

PoE Status LED: POE(GE3-GE10/GE1-GE8)

-Power Requirement

Power Input

L5: 24VDC(12-36VDC)

L16: 48VDC(12-57VDC)

12-45VDC for no PoE

45-57VDC for PoE

51-57VDC for PoE+

Power Consumption

L5:

<9W(Non PD)

PoE output 60W@12VDC

PoE output 120W@24VDC

L16:

<9W@12-45VDC(Non PD)

PoE output 120W@45-57VDC(PoE)

PoE output 240W@51-57VDC(PoE+)

Power Terminal 4-pin 5.08mm-spacing plug-in terminal block

PoE overload protection Support

Reverse protection Support

Redundancy protection Support

-Physical Characteristics

Housing Metal

Cooling Natural convection, fanless

Protection Class IP30

Dimension 42mm×136mm×121mm(W×H×D)

Weight <0.45Kg

Mounting DIN-Rail Mounting

-Environmental Limit

Operating Temperature -40°C ~ +75°C

Storage Temperature -40°C ~ +85°C

Ambient Relative Humidity 5 ~ 95% (non-condensing)

-Warranty

MTBF

2GX8GP:

L16: 1463833h

L5: 1331573h

8GP:

L16: 1535103h

L5: 1812547h

Warranty 5 years

-Approvals

CE, FCC, E Mark

EMC: EN 55032, EN 61000-6-4, EN 61000-6-2

Rail Traffic: EN 50121

-Industrial Standard

EMI

FCC CFR47 Part 15, EN55032/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: $\pm 1\text{kV}/\text{DM}$, $\pm 2\text{kV}/\text{CM}$; Data Port: $\pm 2\text{kV}$

IEC61000-4-6(CS) 10V(150kHz ~ 80MHz)

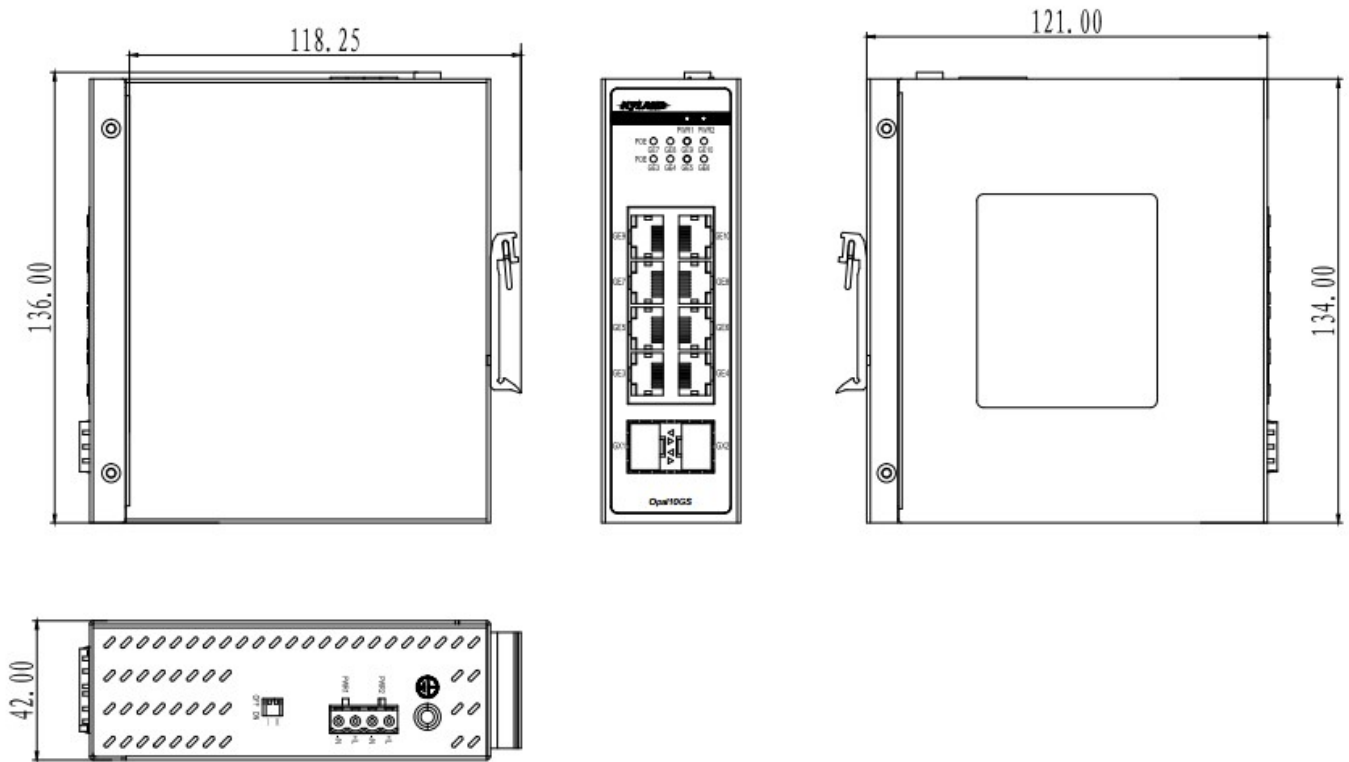
Machinery

IEC60068-2-6 (Shock)

IEC60068-2-27 (Vibration)

IEC60068-2-32 (Free Fall)

» Mechanical Drawing



» Ordering Information

Ordering Information

Product Models	Opal10GS-Ports-PS1-PS2
Code Definition	Ordering Code
Ports	2GX8GP=2×1000Base-X SFP port; 8x10/100/1000Base-T(X) PoE ports 8GP=8x10/100/1000Base-T(X) PoE ports
PS1-PS2: (Redundant Power Inputs)	L5-L6=12-36VDC, redundant power inputs L7-L8=12-57VDC, redundant power inputs

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