Opal10
6+4G port entry-level unmanaged DIN-Rail switches

➤➤ Overview

Opal10 unmanaged DIN-Rail switch is specially designed for automation control applications. It is equipped with up to 6 10/100Base-TX RJ45 ports, 2 10/100/1000Base-TX RJ45 ports and 2 SFP ports which can be set to be 100M or 1000M by DIP-Switch located on the top of the switch, making the applications more flexible. Opal10 supports redundant power inputs, metal housing with IP30 protection class, thus ensuring fast and reliable data transmission in harsh industrial environments. Opal10 provides both standard (-10°C to 60°C) operating temperature range model and wide (-40°C to 75°C) operating temperature range models to meet different needs of applications.

➤➤ Key Features

Support 2 10/100/1000Base-TX ports, 2 Gigabit SFP ports and 6 10/100Base-TX ports

Setting SFP port speed (100M/1000M) by DIP Switch

Both standard and wide operating temperature models are available

IP30 protection class

CE, FCC, UL61010, Class I Div 2, IECEx, ATEX Zone 2, Ex nA IIC T4 Gc

➤➤ Product Specifications

>Technical Specification
-Standard

IEEE 802.3i (10Base-T)

IEEE 802.3u (100Base-TX and 100Base-FX)

IEEE 802.3ab(1000Base-T)

IEEE 802.3z (1000Base-X)

-Switch Properties

MAC Table: 8K

Packet Buffer: 4Mbit

Packet Forwarding Rate: 4.2Mpps

Switching Delay:<10μs

-Interface

Gigabit Port:

1000Base-X, SFP slot

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

Fast Ethernet Port:

100Base-X, SFP slot

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

-LED

LED on Front Panel

Power LED: PWR1, PWR2

Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT, Speed (Fiber port)

-DIP-Switch

Enable/Disable broadcast storm protection

Set the SFP port speed to 100M or 1000M

-Power Requirements

Power Input: 12-48VDC/18-30VAC

Power terminal:

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

Power Consumption:<10w

Overload protection: Support

Reverse protection: Support

Redundancy protection: Support

-Physical Characteristics

Housing: Metal

Cooling: Natural convection, fanless

Protection Class: IP30

Dimension: 54mm×134mm×106mm (W×H×D)

Weight: 0.5Kg

Mounting: DIN-Rail or Panel mounting

-Environmental Limits

Operating Temperature:

-10°C to +60°C (Opal10-E)

-40°C to +75°C

Storage Temperature: -40°C to +85°C

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

-Quality Assurance

MTBF: 2,486,573 hrs

Warranty: 5 years

-Approvals

CE, FCC, UL61010, Class I Div 2, IECEx, ATEX Zone 2, Ex nA IIC T4 Gc

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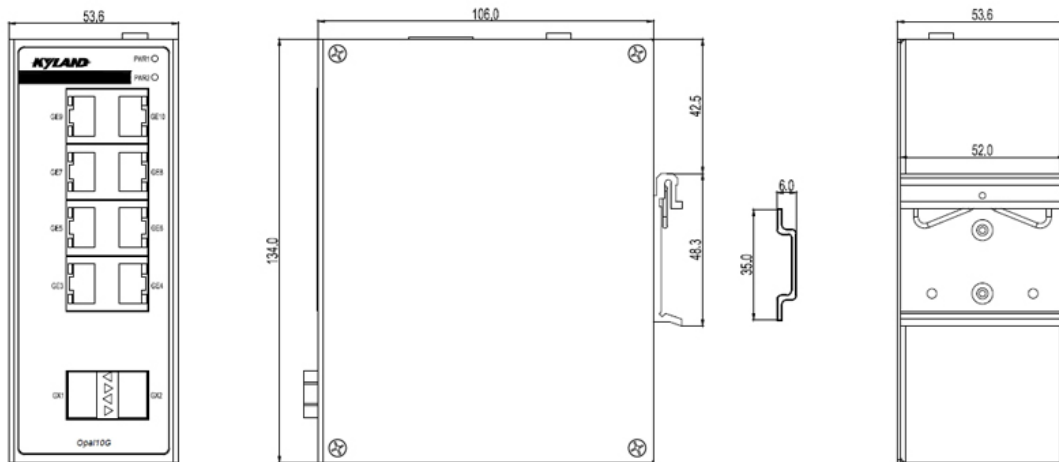
IEC61000-4-6(CS): 10V (150kHz–80MHz)

Machinery:

IEC60068-2-6(Vibration)

IEC60068-2-27(Shock)

IEC60068-2-32(Free Fall)

≫ Mechanical Drawing

≫ Ordering Information

Opal10-X-Ports-PS

X	Operating temperature range
E	-10 -+60°C operating temperature
None	-40 -+75°C operating temperature

Ports

2GX2GE6T	2 X 1000Base-X, SFP slots, 2 X 10/100/1000Base-T(X) RJ45 ports; 6X10/100Base-T(X) RJ45 ports

PS

LV-LV	12-48VDC/18-30VAC, redundant power inputs

Accessories

Gigabit SFP module	Please refer to the Gigabit SFP module ordering list
100Base-X SFP module	Please refer to the 100Base-X SFP module ordering list
DT-BGAZ-11	Panel for Panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port

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