

Opal20 18+2G port entry-level unmanaged DIN-Rail switches



>> Overview

Opal20 series is a well-designed entry level unmanaged switches with compact structure, flexible port combinations and reliable performance, fulfilling different demands in automation control applications. Opal20 supports 2 optional 10/100/1000Base-TX ports, 2 optional 100Base-FX ports and up to 16 10/100Base-TX RJ45 ports. Opal20 support SC/ST/SFP type fiber ports, redundant power inputs, metal housing with IP30 protection class, thus ensuring fast and reliable data transmission in harsh industrial environments. Opal20 provide 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 applications.

> Key Features

Flexible port combinations, supporting max 2 10/100/1000 Base-TX ports, 2 100Base-FX ports, 16 10/100Base-TX ports 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)

-Switch Properties

MAC Table: 8K Packet Buffer: 2Mbit Packet Forwarding Rate: 5.7Mpps Switching Delay:<10µs

-Interface

Gigabit Port: 10/100/1000Base-T(X), RJ45 port Fast Ethernet Port: 100Base-FX, SM/MM, SC/ST connector 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

-Power Requirements

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

Power terminal:

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

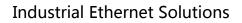
Power Consumption: <8W

Overload protection: Support

Reverse protection: Support

Redundancy protection: Support

-Physical Characteristics



Cooling: Natural convection, fanless Protection Class: IP30 Dimension: 80mm×134mm×106mm (W×H×D) Weight: 0.7Kg Mounting: DIN-Rail or Panel mounting

-Environmental Limits

Housing: Metal

Operating Temperature: -10°C to +60°C(Opal20-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

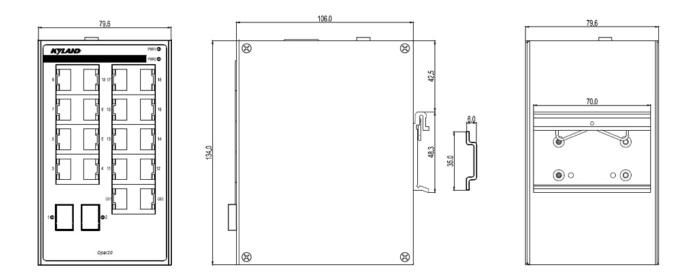
CE, FCC, UL61010, Class I Div 2, IECEx, ATEX Zone 2, Ex nA IIC T4 Gc

-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) IEC60068-2-7(Shock) IEC60068-2-32(Free Fall)



Mechanical Drawing



Ordering Information

Opal20-Ports-Connector-PS1-PS2

Opal20-E-Ports-Connector-PS1-PS2

	Operating temperature range
E	-10 -+60 operating temperature
None	-40 -+75 operating temperature
Ports	
2GE2S16T	2x10/100/1000Base-T(X) RJ45 ports; 2x100Base-FX, single mode fiber ports; 16x10/100Base-T(X) RJ45 ports
2GE2M16T	2x10/100/1000Base-T(X) RJ45 ports; 2x100Base-FX, multi mode fiber ports; 16x10/100Base-T(X) RJ45 ports
2GE2SFP16T	2X10/100/1000Base-T(X) RJ45 ports; 2X100Base-X, SFP slots; 16X10/100Base-T(X) RJ45 ports
2GE16T	2X10/100/1000Base-T(X) RJ45 ports; 16X10/100Base-T(X) RJ45 ports
2S16T	2x100Base-FX, single mode fiber ports; 16x10/100Base-T(X) RJ45 ports
2M16T	2x100Base-FX, multi mode fiber ports; 16x10/100Base-T(X) RJ45 ports
2SFP16T	2X100Base-X, SFP slots; 16X10/100Base-T(X) RJ45 ports
16T	16X10/100Base-T(X) RJ45 ports
Connector	100M fiber port specifications
SC05	SC connector, multi-mode, 1310nm, 5km
ST05	ST connector, multi-mode, 1310nm, 5km
SC40	SC connector, single-mode, 1310nm, 40km
ST40	ST connector, single-mode, 1310nm, 40km
SC60	SC connector, single-mode, 1310nm, 60km
SC80	SC connector, single-mode, 1550nm, 80km
None	No 100M fiber port
PS	
LV-LV	12-48VDC/18-30VAC, redundant power inputs
Accessories	
100Base SFP module	Please refer to the 100Base SFP module ordering list
DT-BGAZ-02	Panel for Panel mounting

DT-FCZ-RJ45-01

Dustproof cover for RJ45 port

Version:2021-03-22 16:44:42

