

OPL-IS7M-2.5G0204-U-R

Industrial Managed Switch 2x1G/2.5GBase-X SFP, GE 4xRJ45

Support USB easy upgrading and DI/DO/RS485/Modbus data



Общие сведения

OPL-IS7M-2.5G0204-U-R - это высоконадежные управляемые промышленные Ethernet-коммутаторы с 4-мя портами 10/100/1000-T RJ45 и 2-мя слотами 1000/2500Base-X SFP. Он поддерживает сеть с резервированием ERPS, а механизм самовосстановления составляет менее 15 мс при полной нагрузке, что позволяет создать надежную сеть Ethernet, построив кольцевую топологию с резервированием в качестве резервного решения. Он обеспечивает передачу данных DI/DO/RS485/Modbus и надежную функцию управления уровня 2, которая может удовлетворить особые потребности приложений промышленной автоматизации. Будучи высокорентабельным устройством, он обеспечивает широкий диапазон входного напряжения 12-58 В постоянного тока, резервное питание с защитой от переплюсовки, прочный корпус IP40 без вентилятора с возможностью установки на Din-рейку, высокую/низкую температуру от -40°C до 75°C, а также высокий уровень EMI/EMC-возможности. Это лучший выбор для тяжелых промышленных предприятий, транспорта, нефти и газа, химической промышленности, IP-видеонаблюдения и автоматизации обработки, где условия окружающей среды являются суровыми и критическими.

Features

- Redundant power 12-58VDC input with polarity reverse/over-voltage/current protection
- Support USB configuration and upgrading, DI/DO/RS485/Modbus data
- Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP, MSTP/Port Mirroring/DHCP Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP DDM/IPV6/Web/SNMP/Telnet/TFTP management
- Support 6KV surge protection and ESD Air-15kV, Contact-8kV Protection

Specifications

Provider Mode Ports

Fixed Port	2*1G Base-X SFP+, 4*10/100/1000 Base-T
Management Port	Support Console, Support USB
Data Channel	1ch RS485, 1ch DI(digital input), 1chDO(digital output)

Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Ethernet
	IEEE 802.3ab 1000Base-T Ethernet
	IEEE 802.3z 1000Base-X Ethernet
	IEEE 802.3x Flow Control and Back Pressure
	IEEE 802.1D Spanning Tree Protocol
	IEEE 802.1w Rapid Spanning Tree Protocol
	IEEE 802.1Q VLAN
	ITU-T G.8032 ERPS
	IEEE 802.1X Port Authentication Network Control
IEEE 802.1ab LLDP	
IEEE 802.3ad LACP	
PoE Optional(IEEE802.3af PoE, IEEE802.3at PoE+)	

LED Indicators

P (Power indicator)	Off: the device is power off or failed; On: the device power on is normal
S (System status indicator)	Blinking: device initialization; On: device on normal operation
USB (USB status indicator)	Off: USB flash drive not insert or not detected by device
	On: USB flash drive is detected by device
ALM (Fault status indicator) Red	Blinking: the device is reading and writing the data from USB flash drive
	Off: Device on normal working state; On: Fault alarm
1-4 (Copper ports indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX
1-4 PoE status indicators) Yellow	Off: PoE not working; On: PoE working
5-6 (Fiber ports indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX

Power Parameter

Input Voltage	Non-PoE 12-58V DC, PoE 44-57V DC, redundant power input
Total Power Consumption	Full loading Non-PoE ≤8W; PoE power budget ≤120W
Connector	Removable 4-pin terminal block
Reverse Polarity Protection	Support

Over-voltage Protection	Support
Over-current Protection	Support
Layer 2 Function	
Port Aggregation	Support GE port aggregation Support 2.5GE aggregation Support static aggregation Support dynamic aggregation
Port Features	Support IEEE802.3x flow control, Support port traffic statistics, Support port isolation Support network storm suppression based on port bandwidth percentage
VLAN	Support access mode Support trunk mode Support hybrid mode
VLAN Classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN
QinQ	Port-based QinQ VLAN-based QinQ Flow-based QinQ
Port Mirroring	Many to one port mirroring
Ring Network Protocol	Support STP/RSTP/MSTP Support G.8032 ERPS protocol, single ring, sub-Ring and associated sub ring Recovery time ≤15ms
DHCP	Support DHCP Client Support DHCP Snooping
Multicast	IGMP snooping
ACL	IP Standard ACL MAC extend ACL IP extend ACL
QoS	Support QoS Class, Remarking Support SP, WRR queue scheduling Ingress Port-based Rate-limit Egress Port-based Rate-limit Support Policy-based QoS

Security	<ul style="list-style-type: none"> Support Dot1x, port authentication, MAC authentication, RADIUS service Support port-security Support IP Source Guard, IP/Port/MAC binding Support ARP-check and ARP packet filtering for illegal users Support port isolation
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Management & maintenance Support LLDP	<ul style="list-style-type: none"> Support user management and login authentication Support SNMPV1/V2C/V3 Support web management, HTTP1.1, HTTPS Support Syslog and alarm grading Support RMON(Remote Monitoring) alarm Support NTP Support temperature monitoring Support Ping, TRACERT Support optical transceiver DDM function Support TFTP Client Support Telnet Server Support SSH Server Support IPv6 Management Support TFTP, web upgrading Support USB upgrading Support USB importing configuration
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Switching Features

Switching Capacity	18Gbps
Packet Forwarding Rate	26.7Mpps
MAC Address Table	16K
VLAN	4K
Buffer	12Mbit
Forwarding Delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support

Mechanical structure

Case Protection	IP40
Installation Method	Din-rail
Dimension(W*D*H) mm	54*115*158mm
Net Weight	1.25KGs

Operating environment

Operating temperature -40°C~+75°C

Storage/transportation temperature -40°C~+85°C

Relative humidity Operation humidity: 10%-90%RH; Storage humidity: 5%-95%RH

Industrial Standard

EMS Surge protection of power: IEC 61000-4-5 6KV/4KV(8/20us)
Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV(10/700us)
RS: IEC 61000-4-3 80 MHz-1 GHz: 10 V/m
EFT: IEC 61000-4-4 4K/2K
CS: IEC 61000-4-6 10V
ESD: IEC 61000-4-2 Contact: 8K; Air: 15K

EMI FCC Part 15B Class A

Shock IEC 60068-2-27

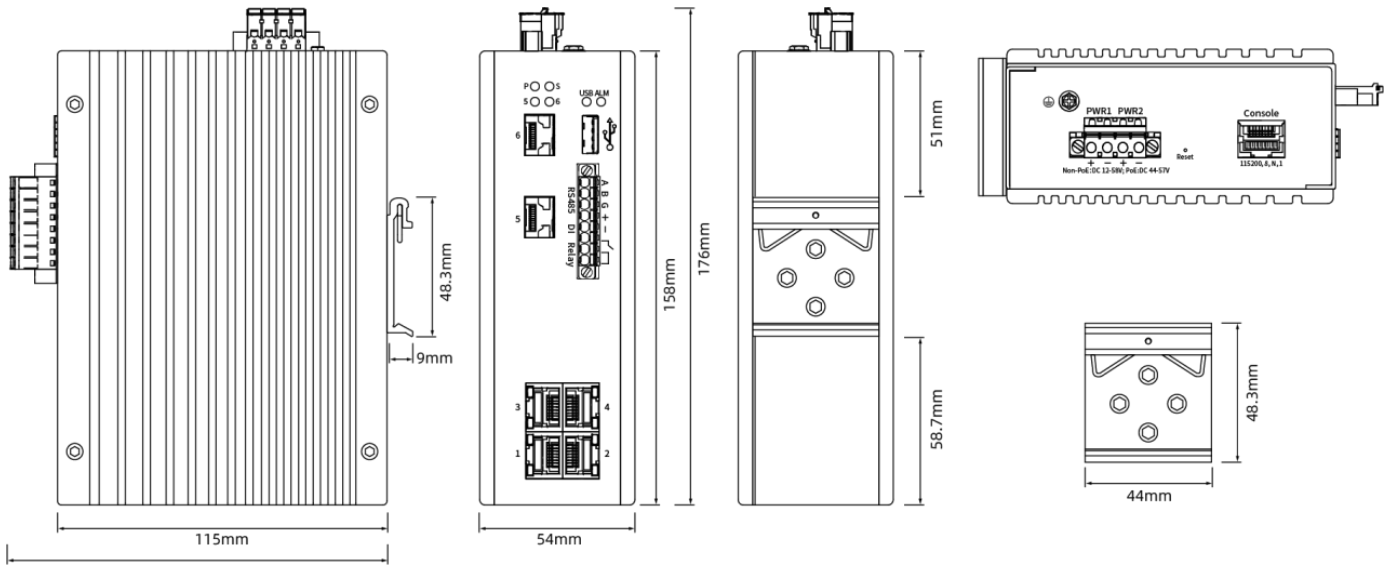
Free fall IEC 60068-2-32

Vibration IEC 60068-2-6

Certification CE/FCC/RoHS

Warranty 3 years

Dimensions



Информация для заказа

Модель	Описание
OPL-IS7M-2.5G0204-U-R	Managed Industrial Ethernet Switch, supports DI/DO/RS485/Modbus data 4*10/100/1000Base-T RJ45 ports and 2*1G/2.5GBase-X SFP slots
OPL-IS7M-2.5G0204-U	Managed Industrial Ethernet Switch 4*10/100/1000Base-T RJ45 ports and 2*1G/2.5GBase-X SFP slots
OPL-IS7M-2.5G0204P-U-R	Managed Industrial Ethernet PoE Switch, supports DI/DO/RS485/Modbus data 4*10/100/1000Base-T RJ45 PoE ports and 2*1G/2.5GBase-X SFP slots
OPL-IS7M-2.5G0204P-U	Managed Industrial Ethernet PoE Switch 4*10/100/1000Base-T RJ45 PoE ports and 2*1G/2.5GBase-X SFP slots