

OPL-IS7M-2.5G0408-U-R

8*10/100/1000Base-T PoE+4*1G/2.5GBase-X SFP, RS485, I/O, USB



Общие сведения

OPL-IS7M-2.5G0408P-U-R - это высоконадежные управляемые промышленные Ethernet-коммутаторы с 8 портами 10/100/1000-T RJ45 и 4 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, оно 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

Model No.	OPL-IS7M-2.5G0408P-U-R
Interface	4 Fiber ports + 8 Copper RJ45 ports
Ethernet	8*10/100/1000Base-T RJ45 + 4*1000/2500Base-X SFP
Management port	1*RJ45 Console port, 1*USB 2.0
Data channel	1 channel RS485; 1 channel DI (digital input); 1 channel DO (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 IEEE802.3x 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
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 Blinking: the device is reading and writing the data from USB flash drive
ALM (Fault status indicator) Red	Off: Device on normal working state; On: Fault alarm
1-8 (Copper ports indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX
1-8 (PoE status indicators) Yellow	Off: PoE not working; On: PoE working
9-12(Fiber ports indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX
Power parameter	
Input voltage	12-58VDC, redundant power input
Input current	1.2A Max
Total power consumption	Full loading ≤15W

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 $\leq 20\text{ms}$
DHCP	Support DHCP Client Support DHCP Snooping
Multicast	IGMP V1, V2, V3; 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	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

	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
Management & maintenance	Support Ping, TRACERT
Support LLDP	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

Switching features

Switching capacity	36Gbps
Packet forwarding rate	53.5Mpps
MAC address table	16K
VLAN	4K
Buffer	12Mbit
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support

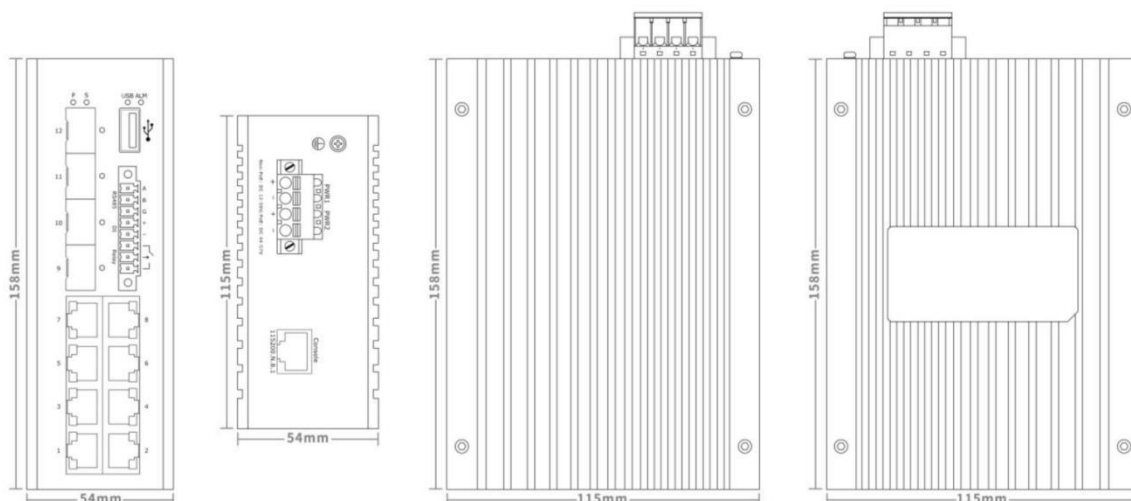
Mechanical structure

Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H) mm	54*115*158mm
Weight	1.35KGs;
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-2.5G0408-U-R	Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 4*1G/2.5GBase-X SFP slots, supports DI/DO/RS485/Modbus data, DC12-58V input, redundant dual power supply, Din-rail installation, -40°C ~ +75°C
OPL-IS7M-2.5G0408-U	Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 4*1G/2.5GBase-X SFP slots, DC12-58V input, redundant dual power supply, Din-rail Installation, -40°C ~ +75°C