

OPL-IS7M-10G0416P-U-R

16*10/100/1000Base-T PoE+4*1G/2.5GBase-X SFP, RS485, I/O, USB



Общие сведения

OPL-IS7M-10G0416P-U-R - это высоконадежный управляемый промышленный Ethernet-коммутатор второго уровня с 16 портами 10/100/1000-T RJ45 и 4-мя слотами 1G/2.5G/10GBase-X SFP+. Он соответствует стандартным протоколам IEEE802.3af PoE и IEEE802.3at PoE+. Благодаря гигабитной нисходящей и 10-гигабитной восходящей линии связи он обеспечивает высокую производительность и возможность быстрой передачи больших объемов видео, голоса и данных по сети. Поддержка данных DI/DO/RS485/Modbus, G.8032 ERPS, технологии резервирования MSTP/RSTP/STP, мощное управление на уровне 2 и безопасные функции, что делает их идеальными для крупномасштабных промышленных сетей. Резервный источник питания с входом DC44-57V, прочный корпус IP40 без вентилятора с возможностью установки на Din-рейку, широкая рабочая температура от -40°C до 75°C, а также высокий уровень защиты от электромагнитных помех/ЭМС. Они являются лучшим выбором для тяжелых промышленных предприятий, транспорта, нефтегазовой и химической промышленности, IP-видеонаблюдения и автоматизации обработки, где условия окружающей среды являются жесткими и критическими.

Features

- Redundant power DC44-57V 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-10G0416P-U-R
Interface	4 Fiber ports + 16 Copper RJ45 ports
Ethernet	16*10/100/1000Base-T RJ45 + 4*1G/2.5G/10GBase-X SFP+
Management Port	1*RJ45 console port, 1*USB 2.0 for configuration and firmware update
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 IEEE 802.3ae 10GBase-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 IEEE802.3af PoE IEEE802.3at PoE+
LED Indicators	
P1/P2 (Power) Green	Off: the device is power off or failed; On: the device power on is normal
SYS (System status)	Blinking: device initialization; On: device on normal operation Off: USB flash drive not insert or not detected by device
USB (USB status) Green	On: USB flash drive is detected by device Blinking: the device is reading and writing the data from USB flash drive
ALM (Fault status) Red	Off: Device on normal working state; On: Fault alarm
Ring (Ring network)	Off: Ring network disable On: Ring network enable
1-16 (Copper ports) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX
1-16 (PoE status) Yellow	Off: PoE not working; On: PoE working
17-20 (Fiber portss) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX
Power Parameter	
Input Voltage	44-57VDC, redundant power input

Input Current	6A Max
Total Power Consumption	Full loading $\leq 24W$ PoE power budget $\leq 240W$
Connector	Removable 2 group +/- 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 10GE 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 $\leq 20ms$
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	<ul style="list-style-type: none"> 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
Management & Maintenance	<ul style="list-style-type: none"> Support LLDP 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 PoE management Support TFTP, web upgrading Support USB upgrading Support USB importing configuration Support PoE management

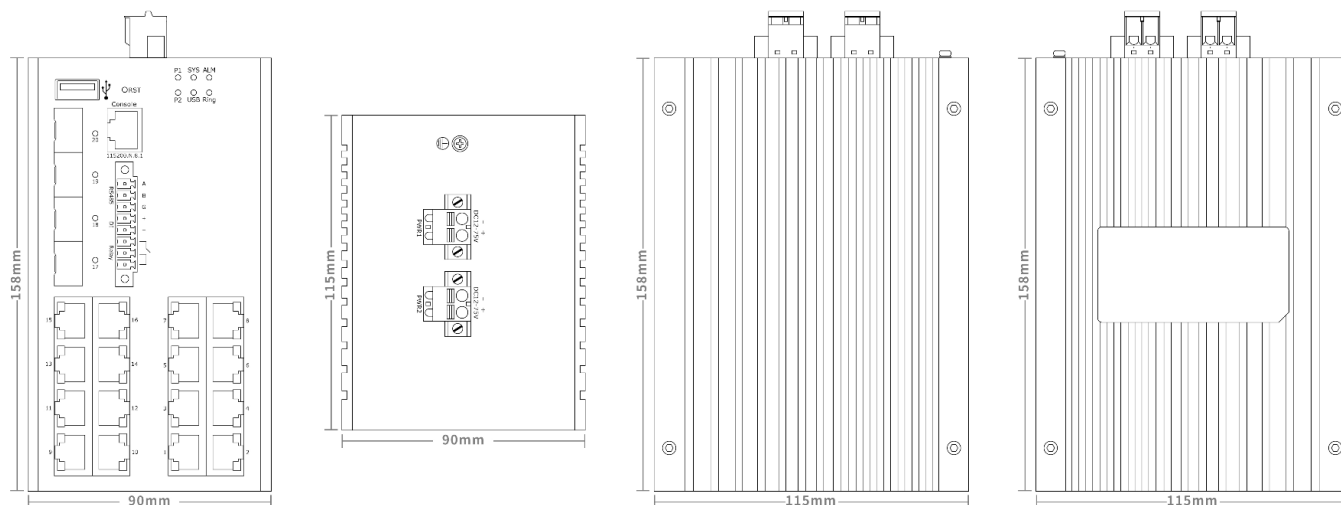
Switching Features

Switching Capacity	112Gbps
Packet Forwarding Rate	166.6Mpps
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	110*115*158mm
Weight	1.95KGs
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-10G0416P-U-R	<p>Managed Industrial PoE Switch</p> <p>4*1G/2.5G/10GBase-X SFP+ ports, 16*10/100/1000Base-T RJ45 PoE ports</p> <p>Support DI/DO/RS485/Modbus</p> <p>Dual redundant DC 44-57V input, Din-rail installation; -40° C to 75° C</p>
OPL-IS7M-10G0416P-U	<p>Managed Industrial PoE Switch</p> <p>4*1G/2.5G/10GBase-X SFP+ ports, 16*10/100/1000Base-T RJ45 PoE ports</p> <p>Dual redundant DC 44-57V input, Din-rail installation; -40° C to 75° C</p>