

OPL-IS7M-G0408P-ED

8*10/100/1000Base-T + 4*1G/2.5GBase-X SFP Dual Rate



Общие сведения

OPL-IS7M-G0408P-ED - это высоконадежные управляемые промышленные Ethernet-коммутаторы с 8 портами 10/100/1000-T RJ45 и 4 слотами 1000/2500Base-X SFP. Он поддерживает резервирование сети ERPS, а механизм самовосстановления составляет менее 20 мс при полной нагрузке, что позволяет создать надежную сеть Ethernet, построив резервную кольцевую топологию в качестве резервного решения. OPL-IS7M-G0408P-E также поддерживает DI/DO/RS485/Modbus и надежную функцию управления уровня 2, которая может удовлетворить особые потребности приложений промышленной автоматизации.

Являясь высокорентабельным и простым в использовании устройством, он может обеспечить основные функции промышленной сети Ethernet, включая широкий диапазон входного питания 12-58 В постоянного тока, резервное питание с защитой от переплюсовки, прочный корпус IP40 без вентилятора с возможностью установки на Din-рейку, широкий диапазон рабочих температур от -40°C до 75°C, а также высокий уровень EMI/EMC-совместимости. 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

- 8*10/100/1000Base-T RJ45 ports
- 4*1000/2500Base-X SFP slots
- Redundant power 12-58V input with polarity reverse/over-voltage/current protection
- Support USB configuration and upgrading
- Support 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/SFPDDM/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- G.8032 ERPS protocol, recovery ≤ 15 ms
- Support 6kV surge protection and ESD: Air-15kV, Contact-8kV Protection

Specifications

Model No.	OPL-IS7M-G0408P-ED	
Interface	Fiber ports	Copper RJ45 ports
	4	8
Ethernet	8*10/100/1000Base-T RJ45 4*1000/2500Base-X SFP	
Management port	1*RJ45 Console port, 1*USB 2.0	
Data channel (optional)	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
	Off: USB flash drive not insert or not detected by device	
USB (USB status indicator)	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(Port speed indicators) Yellow	Off: ports on 10/100M	
	On: ports on 1000M	
9-10(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 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 ≤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	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

Management & maintenance

- 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 LLDP

- 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

Switching features

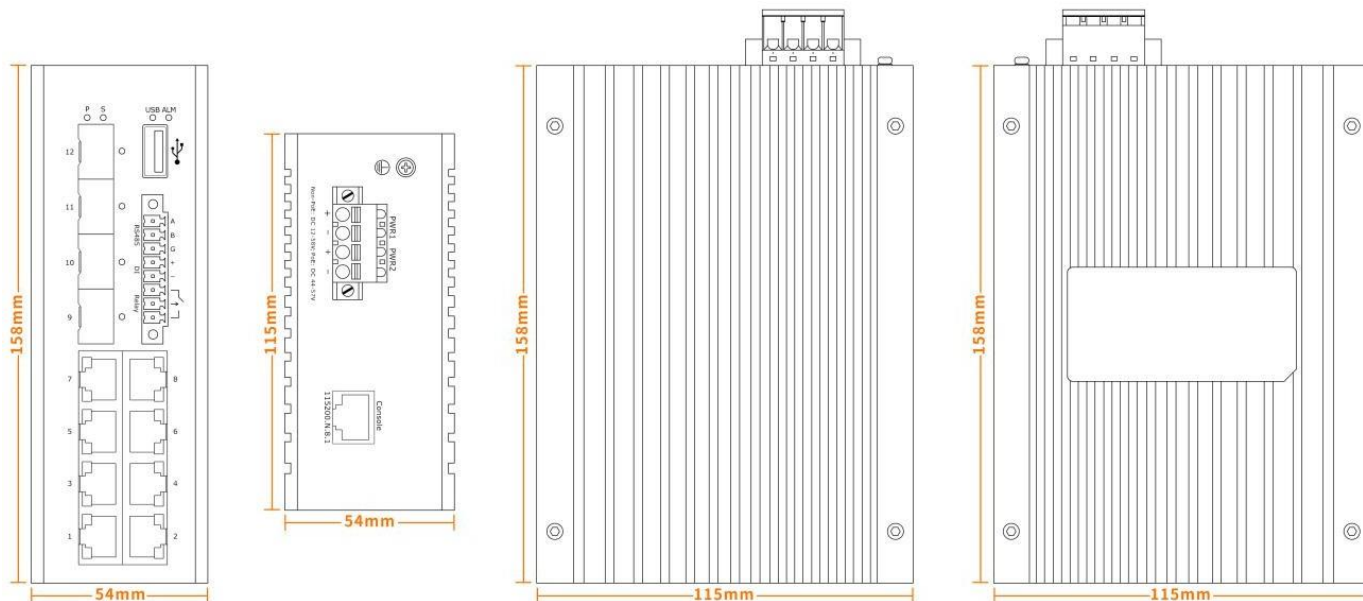
Switching capacity	36Gbps
Packet forwarding rate	53.5Mpps
MAC address table	16K
VLAN	4K
Buffer	12M bit
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
Mechanical structure	
Case protection	IP40
Installation method	Din-rail
Dimension (W*D*H)mm	54*115*158mm

Weight	1.35kg
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-G0408P-ED	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; Operation temperature: -40°C ~ +75°C
OPL-IS7M-G0408P-E	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. Operation temperature: -40°C ~ +75°C