

OPL-SWM2+-G0424(P)-AC5L

Layer 2+ Managed Switch 24x10/100/1000M RJ45 (PoE), Uplink 4x1G/2.5G SFP



Общие сведения

OPL-SWM2+-G0424(P)-AC5L - это высоконадежный управляемый Ethernet-коммутатор уровня 2+ с 24 портами RJ45 (PoE) 10x10/100/1000Base-T и 4 портами SFP 1G/2.5GBase-X. Этот коммутатор предлагает комплексное сквозное QoS и ряд гибких настроек управления и безопасности, что делает его идеальным решением для сетей малых и средних предприятий, которым требуется высокая скорость, безопасность и интеллектуальность по экономически выгодной цене. Он поддерживает технологии ERPS G.8032, резервирования MSTP/RSTP/STP, статическую маршрутизацию IPv4/IPv6, DHCP-сервер, а также надежные функции управления и безопасности второго уровня. Эти функции обеспечивают эффективное управление трафиком данных для интернет-провайдеров и предприятий, поддерживая такие приложения, как VoIP, потоковое видео и многоадресная рассылка.

Features

- 24x10/100/1000M RJ45(PoE)+Uplink 4x1G/2.5G SFP, 1*RJ45 console port
- Layer 3 features: Support IPv4/IPv6 static routing, DHCP server
- Layer 2 features: VLAN; ERPS, STP/RSTP/MSTP; Link aggregation, IGMP snooping, port mirroring, QinQ, 802.1X, port isolation, RMON, NTP client, DHCP snooping/client, Ping/Tracert test, ACL, QoS and SFP DDM function
- Management and maintenance: IPv4 and IPv6 management; Support Web, SNMP, CLI, Telnet/SSH management method; Support user management, system log, configuration upload/download through web interface, firmware

upgrade via HTTP/TFTP

- Support G.8032 ERPS protocol, recovery time $\leq 20\text{ms}$
- Support 4KV Power surge protection, IEC 61000-4-5 Level X (8/20us)
- Support 4KV Ethernet ports surge protection, IEC 61000-4-5 Level 4 (10/700us)
- Support fan speed control
- Operation temperature: $0\text{ }^{\circ}\text{C} \sim +50\text{ }^{\circ}\text{C}$

Specifications

Model No.	OPL-SWM2+-G0424(P)-AC5L
Fixed Port	24x10/100/1000M RJ45 (PoE), 4x1G/2.5G SFP
Management Port	1xRJ45 Console port (115200, 8, N, 1) 1 channel RS485
Data & Alarm Channel (optional)	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 IEEE802.3af PoE (optional) IEEE802.3at PoE+ (optional)

LED Indicators

PWR (Power Indicator)	Off: the device is power off or failed; On: the device power on is normal
SYS (System Status Indicator)	Blinking: device initialization; On: device on normal operation
1-24 (Copper Ports Indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX
1-24 (Copper speed indicators) Yellow	Off: ports on 10/100M; On: ports on 1000M
25-28 (Fiber Ports Indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX

Power Parameter

Input Voltage	AC100 ~240V, 50/60Hz
Total Power Consumption	Full loading without PoE $\leq 24\text{W}$; PoE power budget $\leq 245\text{W}$
Over-Current Protection	Support

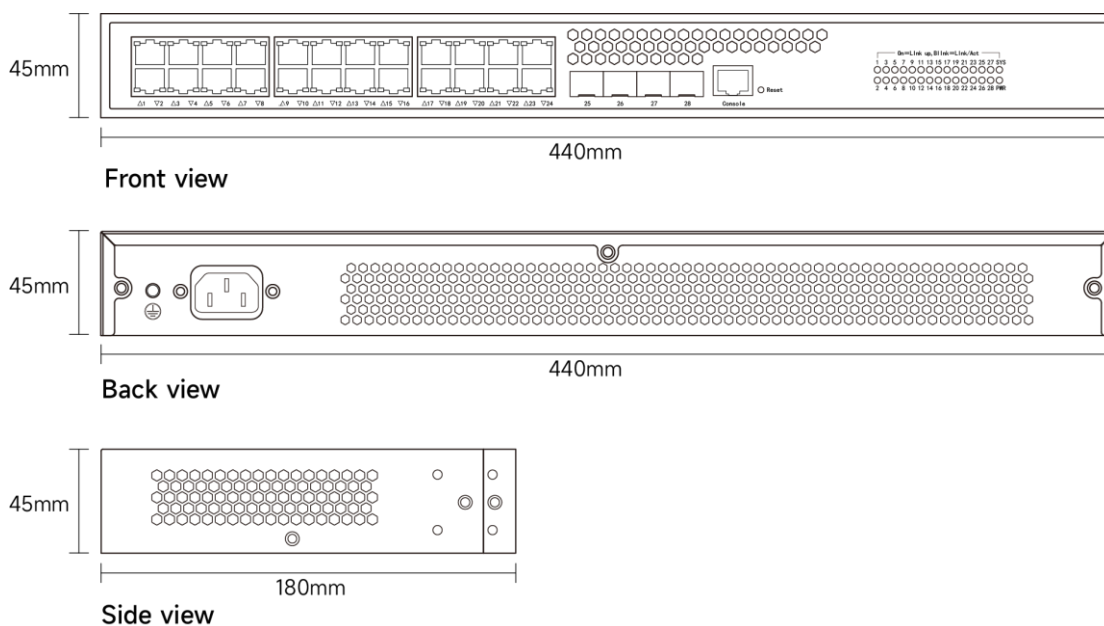
Layer 2 Functions

Port Aggregation	Support GE port aggregation Support 2.5GE aggregation Support 10GE aggregation Support static aggregation Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group
Port Features	Support IEEE802.3x flow control, Support interface counters, Support port isolation, port mirroring (One-to-One, Many-to-One) Support loop detection (Port-based; VLAN-based) Support broadcast storm suppression (broadcast; unknown multicast; unknown unicast)
Mac-Address Table Management	Support static Mac-address management Support dynamic Mac-address Management Support filtering Mac-address Support MAC limit based on port and VLAN Support MAC flapping based on port and VLAN
VLAN	Support access mode; Support trunk mode; Support hybrid mode
VLAN classification	Mac Based VLAN; IP Based VLAN; Protocol Based VLAN
GVRP	Normal mode; Fixed mode; Forbidden mode
QinQ	Port-based QinQ VLAN-based QinQ (VLAN-stacking; VLAN-mapping) Flow-based QinQ
LLDP	LLDP (Link Layer Discovery Protocol)
Ring Network Protocol	Support IEEE802.1D-STP Support IEEE802.1W-RSTP Support IEEE802.1S-MSTP Support G.8032 ERPS protocol, single ring, sub-Ring and major ring Recovery time ≤20ms
L2 Multicast	
IGMP Snooping	Support IGMP snooping
Group Address	Support group address
Security Functions	
ACL	IP Standard ACL MAC extend ACL IP extend ACL IPv6 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
802.1x	Port access control Mac-address access control RADIUS server
Port-Security	Port-security
IP Source Guard	IP Port/MAC binding
ARP-check	Support ARP-check and ARP packet filtering for illegal users
Access control	Support Telnet/SSH/HTTP/HTTPS user access control
Management & Maintenance Functions	
User Management	Support password protection Support user authorization management
SNMP	Supporting SNMP V1/V2C/V3 version
Web Management	Web Management Support HTTP V1.1 Support HTTPS
CLI Management	Console/Telnet command line management
RMON	Support RMON (Remote Monitoring) alarm
Firmware Upgrade	Firmware upgrade
Fault Detection	Ping/Tracerout Dying gasp Support optical transceiver DDM function
Cable Detection	Support copper port cable detection
PoE Management	Support 802.3af/802.3at/802.3bt Support PD watchdog Support PoE priority management Support Max PoE power configuration for each port Support alarm waterline configuration Support reserved power configuration
NTP	Network Time Protocol
Syslog/Debug	Syslog/Debug; Syslog sends to three servers
Configuration Import/Export	Support FTP/TFTP remote import/export
Dual Partition Management	Support dual partition switching
Application Protocol Functions	
DHCP Snooping	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82
DHCP Client	Support DHCP client

Telnet Server	Support telnet server
Telnet Client	Support telnet client
SSH Server	Support SSH server
TACACS	Support TACACS (the terminal access controller accesses the control system)
sflow	Support network traffic analysis
TFTP	Support TFTP Client
Layer 3 Functions	
ARP	ARP table aging
DHCP Server	
IPv4 / IPv6	static routing
Switching Features	
Switching Capacity	68Gbps
Packet Forwarding Rate	101Mpps
MAC Address Table	16K
VLAN	4K
Buffer	12Mbit
Forwarding Delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
Mechanical Structure	
Installation Method	Desktop; Rack-mount
Dimension (W x D x H)	440x180x45mm
Weight	2.77kg
Operating Environment	
Operating Temperature	0°C+50°C
Storage Temperature	0°C+50°C
Relative Humidity	Operation humidity: 10%-90%RH; Storage humidity: 5%-95%RH
Certification	CE/RoHS/FCC
MTBF	> 100,000 hours

Dimension



Информация для заказа

Модель	Описание
OPL-SWM2+-G0424-AC5L	L2+ Managed Ethernet switch 24x10/100/1000M RJ45 ports, Uplink 4X1G/2.5G SFP ports AC100~240V Input;
OPL-SWM2+-G0424P-AC5L	L2+ Managed PoE switch 24x10/100/1000M RJ45 PoE ports, Uplink 4X1G/2.5G SFP ports AC100~240V Input;