

# Коммутатор OPL-SWM2R-GC0424-Z

Управляемый коммутатор уровня L2+ Ethernet 4x1000Mbps Combo(TP/SFP)  
24x10/100/1000Base-T



## Описание

OPL-SWM2R-GC0424-Z - это управляемый коммутатор уровня L2+ с адаптивными портами RJ45 24x10/100/1000 Мбит/с и комбинированными оптическими интерфейсами 4x1000 Мбит/с. Каждый порт RJ45 поддерживает автоматическое переключение и высокоскоростную переадресацию данных. Используется метод сохранения и переадресации в сочетании с технологией QoS, чтобы обеспечить эффективное распределение полосы пропускания для каждого порта и стабильную и надежную передачу данных.

## Особенности

- ☒ Поддержка IEEE802.3 / IEEE802.3u / IEEE802.3ab / IEEE802.3z, сохранение и пересылка
- ☒ Режим управления потоком: в полнодуплексном режиме используется стандарт IEEE 802.3x, в полудуплексном режиме - стандарт обратного давления
- ☒ Поддержка автоматического переключения портов (Auto MDI/MDIX)
- ☒ Индикатор на панели, отслеживающий состояние и помогающий анализировать сбои
- ☒ Поддержка аутентификации по порту 802.1x, аутентификация по стандарту AAA, аутентификация по стандарту TACACS+
- ☒ Поддержка WEB, TELNET, CLI, SSH, SNMP, RMON-управления
- ☒ Защита от перенапряжения: Общая 4 кВ, дифференциальная 2 кВ, воздушная ESD 8 кВ, контактная 6 кВ

## Спецификация

### Provider Mode Ports

|                 |                                                  |
|-----------------|--------------------------------------------------|
| Fixed Port      | 4*1000Mbps Combo (TP/SFP), 24*10/100/1000 Base-T |
| Management Port | Support Console                                  |
| Power Interface | AC triangular seat                               |
| LED Indicators  | PWR, SYS, Link/ACT LED                           |

### Cable Type & Transmission Distance

|                          |                      |
|--------------------------|----------------------|
| Twisted-pair             | 0-100m (CAT5e, CAT6) |
| Mono-mode Optical Fiber  | 20/40/60/80/100KM    |
| Multi-mode Optical Fiber | 550m                 |

### Network Topology

|                 |         |
|-----------------|---------|
| Ring Topology   | Support |
| Star Topology   | Support |
| Bus Topology    | Support |
| Tree Topology   | Support |
| Hybrid Topology | Support |

### Electrical Specifications

|                         |                     |
|-------------------------|---------------------|
| Input Voltage           | AC100~240V, 50/60Hz |
| Total Power Consumption | ≤20W                |

### Layer 2 Switching

|                        |            |
|------------------------|------------|
| Switching Capacity     | 56Gbps     |
| Packet Forwarding Rate | 41.616Mpps |
| MAC Address Table      | 8K         |
| Buffer                 | 4.1M       |
| Forwarding Delay       | <10us      |
| VLAN                   | 256        |
| GVRP                   | Support    |
| Protocol VLAN          | Support    |
| Voice VLAN             | Support    |
| Surveillance VLAN      | Support    |
| MAC VLAN               | Support    |

|                                    |            |
|------------------------------------|------------|
| Ethernet Channel/ 802.3ad          | Support    |
| LACP                               | Support    |
| Interface Speed                    | Support    |
| Duplex Mode                        | Support    |
| Flow Control                       | Support    |
| Jumbo Frame                        | Support    |
| DHCP Client                        | Support    |
| SNTP Client                        | Support    |
| Port Statistics                    | Support    |
| Protected Ports                    | Support    |
| EEE                                | Support    |
| Ethernet Ring Protection Switching | Support    |
| LLDP                               | Support    |
| LLDP 802.1 TLV                     | Support    |
| MSTP / RSTP / STP                  | Support    |
| STP BPDU Filter                    | Support    |
| STP BPDU guard                     | Support    |
| STP Port Fast                      | Support    |
| IGMP Snooping                      | Support    |
| MLD Snooping                       | Support    |
| MVR                                | Support    |
| DHCP Interface Priority IP Binding | Support    |
| Device Scan                        | Support    |
| <b>Layer 3 Route</b>               |            |
| IPv4 Management Address            | Support    |
| IPv6 Management Address            | Support    |
| Static Routes IPv4                 | Support 32 |
| Static Routes IPv6                 | Support 32 |
| ARP                                | Support    |
| Loopback Interface                 | Support    |
| DHCP Server                        | Support    |
| DNS Server                         | Support    |

|                                                   |                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DNS Client                                        | Support                                                                                                                                                                                                                                                                                       |
| <b>Convergence &amp; Equipment Diagnosis</b>      |                                                                                                                                                                                                                                                                                               |
| ACL                                               | Support MAC standard/expand ACL<br>Support IPv4 standard/expand ACL<br>Support IPv6 standard/expand ACL                                                                                                                                                                                       |
| QoS                                               | Support QoS re-marking, port trust<br>Support port rate limiting<br>Support egress rate-limited<br>Support SP, WRR queue scheduling<br>Support COS mapping, DSCP mapping, IP priority mapping                                                                                                 |
| Equipment Diagnosis                               | Support Console/RAM/Flash Log<br>Support Port mirroring 1:1 or 1:M<br>Support Ping<br>Support Trace-route<br>Support Copper test<br>Support Optical transceiver DDM<br>Support UDLD protocol                                                                                                  |
| <b>Management &amp; Security</b>                  |                                                                                                                                                                                                                                                                                               |
| CLI / Console                                     | Support                                                                                                                                                                                                                                                                                       |
| RMON                                              | Support                                                                                                                                                                                                                                                                                       |
| WEB Management                                    | Support                                                                                                                                                                                                                                                                                       |
| SNMP                                              | Support SNMPv1/v2c/v3                                                                                                                                                                                                                                                                         |
| User Management                                   | Support                                                                                                                                                                                                                                                                                       |
| System Log                                        | Support                                                                                                                                                                                                                                                                                       |
| Configuration File Download/<br>Upload Telnet/SSH | Support                                                                                                                                                                                                                                                                                       |
| Upgrade Firmware                                  | Support                                                                                                                                                                                                                                                                                       |
| Security                                          | Support managing channel configuration<br>Support AAA/802/1X/MAC-Based/WEB-Based authentication<br>Support DoS attack prevention<br>Support dynamic ARP check<br>Support DHCP Snooping<br>Support IP Source Guard<br>Support port Security<br>Support port Isolation<br>Support storm control |
| <b>Environment</b>                                |                                                                                                                                                                                                                                                                                               |
| Operating Temperature                             | -10°C~+50°C                                                                                                                                                                                                                                                                                   |

|                     |                                           |
|---------------------|-------------------------------------------|
| Storage Temperature | -40°C~+70°C                               |
| Relative Humidity   | 10%~90% (non-condensing)                  |
| Thermal Methods     | Fan-less design, natural heat dissipation |
| MTBF                | 100,000 hours                             |

#### Mechanical Dimensions

|                     |              |
|---------------------|--------------|
| Product Size        | 440*280*44mm |
| Installation Method | Rack mount   |
| Weight              | 3.6KG        |

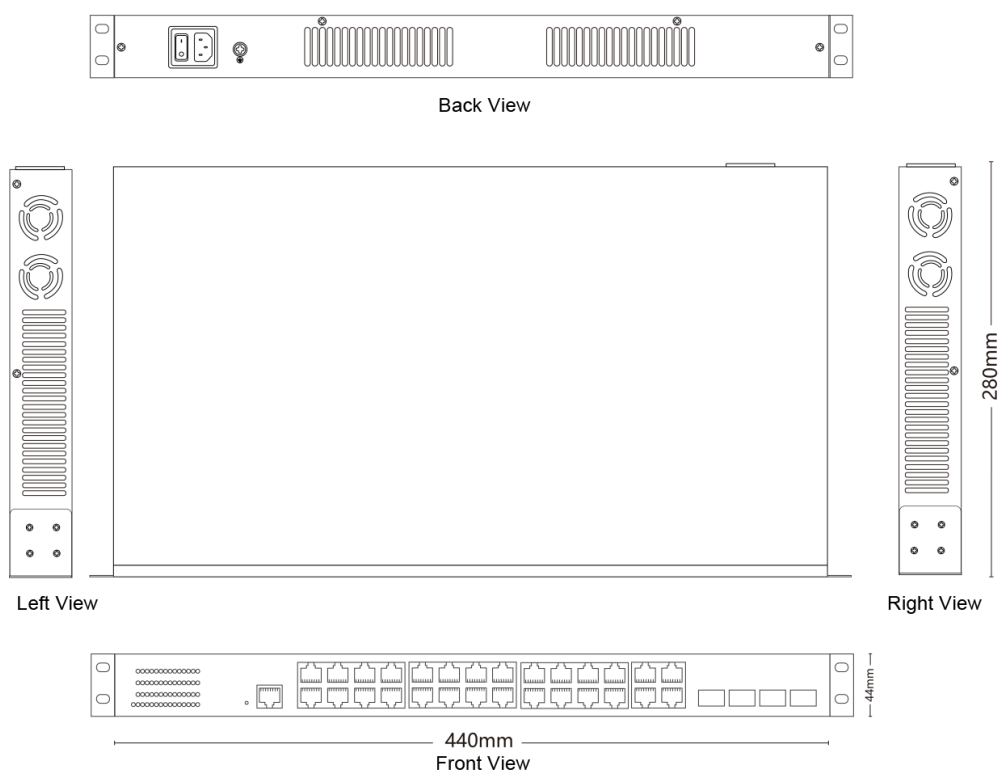
#### EMC & Ingress Protection

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Surge Protection of Power         | IEC 61000-4-5 Level 4 (6KV/2KV) |
| Surge Protection of Ethernet port | IEC 61000-4-5 Level 4 (4KV/2KV) |
| ESD                               | IEC 61000-4-2 Level 4 (8K/15K)  |
| Free Fall                         | 0.5m                            |

#### Certificate

|                      |               |
|----------------------|---------------|
| Security Certificate | CE, FCC, RoHS |
|----------------------|---------------|

## Размеры



Информация для заказа

| P/N                           | Description                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------|
| Коммутатор OPL-SWM2R-GC0424-Z | Управляемый Ethernet-коммутатор уровня L2+<br>Комбинированные порты 4x1000 Мбит/с, 24x10/100/1000Base-T |



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