



WZ-LAN



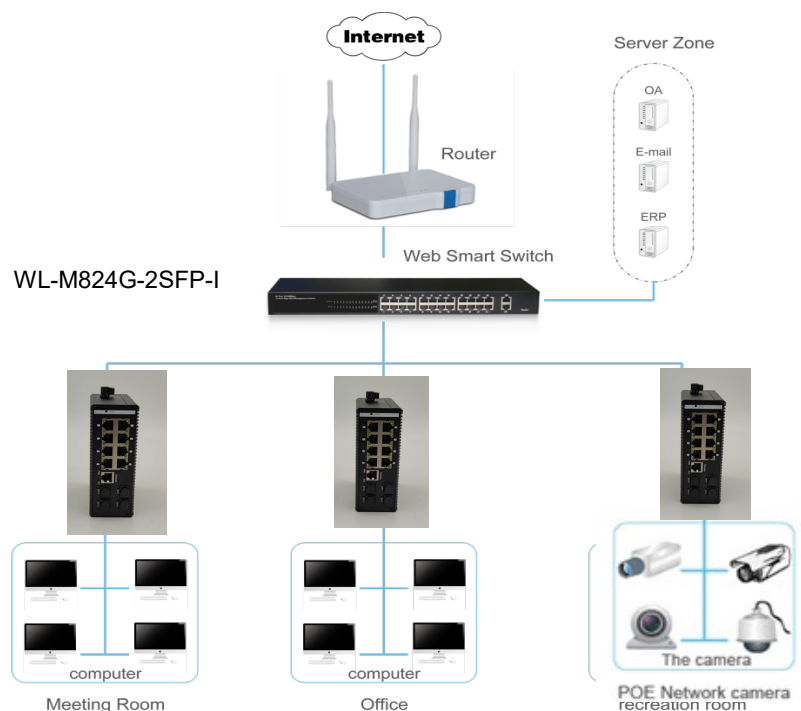
Characteristics

- **Full Gigabit Ports:** 24× gigabit ports and 4× gigabit SFP provide high-speed connections.
- **Robust Security Strategies:** IP-MAC-Port Binding, ACL, Port Security, DoS Defend, Storm control, DHCP Snooping, 802.1X, Radius Authentication, and more.
- Switching Capacity 56Gbps
- Supports Web-based GUI, Command Line Interface (CLI) through telnet, SNMP

Description

The WL-M824G-2SFP-I is a full Gigabit managed industrial switch. industrial grade switch has 24 -10 / 100 / 1000M network ports, and four uplink Gigabit SFP optical slot comobo ports. The industrial grade switch has super big data processing capacity, professional, flexible, durable and stable characteristics, and flexible configuration. Redundant power input, wide temperature design, strong anti electromagnetic interference capability

The application of topology



Features

- Supports IEEE 802.3i · IEEE 802.3u · IEEE802.3ab · IEEE802.3z · IEEE802.3x · IEEE802.3az.
- 24× gigabit PoE+ ports and 4× gigabit SFP.
- Supports MAC address auto-learning and auto-aging.
- Store and forward mode operates.
- LED indicators for monitoring power, link/activity
- Support QoS, port mirroring, link aggregation protocol.
- Installation method of 1u19 inch

Hardware Specification

| | |
|------------------------|---|
| Model | WL-M824G-2SFP-I |
| Chipset | RTL8382MI+RTL8218BI+RTL8214FCI |
| Standards | IEEE 802.3i · IEEE 802.3u · IEEE802.3ab · IEEE802.3x · IEEE802.3az |
| Number of Ports | 24x 10/100/1000Mbps ports 4 x 1000Mbps SFP ports 1x Console port |
| Network Media (Cable) | 10Base-T: UTP category 3, 4, 5 cable (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) 1000Base-T: UTP category 5e, 6 cable (maximum 100m) 1000Base-X:MMF,SMF |
| Transfer Method | Store-and-Forward |
| MAC Address Table | 8K |
| Switching Capacity | 56Gbps |
| Packet Forwarding Rate | 41.67Mpps |
| Packet Buffer | 4.1Mbit |
| Jumbo Frame | 12KBytes |

| | | |
|--------------------|------------|---|
| Indicators | Per Device | Power, System |
| | Per Port | Link/Activity, |
| Dimensions (W×D×H) | | 440x240x45mm (1u19 inch aluminum housing) |
| Environment | | Operating Temperature: -40°C~85°C Storage Temperature: -40°C~85°C Operating Humidity: 10%~90% non-condensing Storage humidity: 5%~90% non-condensing |

Software Specification

| L2 Features | | Support |
|-------------------|-----------------------------|--------------|
| MAC Address Table | | 8K |
| Jumbo Frame | | 10K (10000) |
| Flow Control | 802.3x (Full-duplex) | Yes |
| | Back-Pressure (Half-duplex) | Yes |
| Spanning Tree | IEEE 802.1D (STP) | Yes |
| | IEEE 802.1w (RSTP) | Yes |
| | IEEE 802.1s (MSTP) | 16 instances |
| | Auto Edge Port | Yes |
| | BPDU Filtering | Yes |
| | ERPS V1.0 | Yes |
| | Self Loop Detection | Yes |
| Link Aggregation | IEEE 802.3ad LACP | Yes |
| | Static Trunk | Yes |
| | Max. Group | 8 |
| | Max. Ports/Group | 8 |
| | Traffic Load Balancing | Yes |

| L3 Features | | |
|--|-------------------------------|-----------------|
| Static Routing | | Yes (IPv4/IPv6) |
| Address Resolution Protocol (ARP) | Static ARP | Yes |
| VLAN | | |
| VLAN | Static VLAN | 256 |
| | Port-based | Yes |
| | IEEE 802.1Q Tagged-based | Yes |
| | Protocol-based | 8 groups |
| | MAC-based | 256 |
| Voice VLAN | OUI Mode (Auto/Manual) | 16 OUI |
| Surveillance VLAN | OUI Mode (Auto/Manual) | 16 OUI |
| QinQ (IEEE 802.1ad) | Basic | Yes |
| GARP VLAN Registration Protocol (GVRP) | | Yes |
| Multicast | | |
| Common | Multicast Groups | 256 |
| | Immediate Leave | Yes |
| | Static/Forbidden Router Port | Yes |
| | Static/Forbidden Forward Port | Yes |
| | Filtering | 128 profiles |
| | Throttling | Yes |
| IGMP Snooping | IGMP v1/v2 | Yes |
| | IGMP v3 Basic (BISS) | Yes |
| | IGMP v2/v3 Querier | Yes |
| MLD Snooping | MLD v1/v2 | Yes |
| Multicast VLAN Registration (MVR) | | Yes (IPv4) |
| QoS Features | | |
| Priority Queue | | 8 queues/port |
| Queue Scheduling | WRR | Yes |
| | WFQ | Yes |
| | Strict Priority | Yes |
| | Hybrid(WRR+SP or WFQ+SP) | Yes |
| Class of Service | Port-based | Yes |
| | 802.1p | Yes |
| | IP TOS Precedence | Yes |
| | IP DSCP | Yes |
| Trusted QoS | | Yes |
| Rate Limit | Port-based (Ingress/Egress) | Yes |

| Access Control List (ACL) | | |
|---------------------------------|---|------|
| Access Rules | | 1024 |
| ACL Type | L2/L3/L4 | Yes |
| | MAC-based | 512 |
| | IPv4-based | |
| | IPv6-based | |
| PoE Function | Power | Yes |
| | Current | Yes |
| | Voltage | Yes |
| | PoE Watch Dog | Yes |
| Security | | |
| AAA | Authentication | Yes |
| TACACS+ | | 8 |
| RADIUS | | 8 |
| Authentication Manager | IEEE 802.1X | Yes |
| | MAC Auth | Yes |
| | Web Auth | Yes |
| | Guest VLAN | Yes |
| | Port-based | Yes |
| | Host-based | Yes |
| Account Manager | Local Authenticatoin | Yes |
| | Multiple User Account | 8 |
| | Multi-Level Security (Manager/Operator) | Yes |
| | Password Recovery Procedures | Yes |
| Management Access | Management VLAN | Yes |
| | Management ACL | 256 |
| SSL | SSLv2 | Yes |
| | SSLv3 | Yes |
| | TLSv1 | Yes |
| WebUI | HTTPS | Yes |
| CLI | SSH v1/v2 | Yes |
| Port Security | Dynamic Lock | 256 |
| Storm Control | Broadcast | Yes |
| | Unknown Multicast | Yes |
| | Unknown Unicast | Yes |
| Spanning Tree | BPDU Guard | Yes |
| Protected Port (Port Isolation) | | Yes |
| Black Hole MAC | | Yes |
| CPU Defence Engine | | Yes |
| DoS Prevention | | Yes |
| DHCP Snooping (with Option 82) | | Yes |
| Dynamic ARP Inspection | | Yes |
| IP Source Guard | | 256 |
| IP/MAC/Port Binding (IMPB) | | Yes |

| IPv6 | | |
|-----------------------|---------------------------------------|-------------------|
| IPv6 Host | Auto Configuration | Yes |
| | Static IPv6 Address and Prefix Length | Yes |
| | Static IPv6 Default Gateway | Yes |
| | IPv6 Neighbor Discovery (ND) | Yes |
| | IPv6 Duplicate Address Detection | Yes |
| | ICMPv6 | Yes |
| IPv6 Application | HTTP/HTTPS | Yes |
| | TELNET | Yes |
| | SSH | Yes |
| | SNMP | Yes |
| | TFTP | Yes |
| | Syslog | Yes |
| | PING | Yes |
| | DHCPv6 | Yes |
| Management | | |
| CLI | Console | Yes |
| | Telnet | |
| WebUI | HTTP | Yes |
| SNMP | v1 | Yes |
| | v2c | Yes |
| | v3 | Yes |
| File Management | Firmware Upgrade/Backup | Yes |
| | Dual Images | Yes |
| | Configuration Download/Backup | Yes |
| | Multiple Configurations | Yes |
| Upload/Download | TFTP (RFC783) | Yes |
| | HTTP | Yes |
| | UART | Yes |
| Time Management | Local | Yes |
| | SNTP | Yes |
| Port Management | Friendly Port Name (Port Description) | Yes |
| | Error Disabled Recovery | Yes |
| Line Management | Console | Yes |
| | Telnet (RFC854) | Yes |
| | SSH v1/v2 | Yes |
| DHCP | Client | Yes |
| DNS | Client | Yes |
| Software Reset Button | | Yes |
| EEE (802.3az) | | Yes |
| RMON Management | | 32 entries / type |

