

Спецификация

Управляемые L2 PoE коммутаторы



Технические характеристики

| Модель | U11M-16G/2S | U11M-8G/2S |
|----------------------------|---|--|
| Чипсет | RTL8382M + IP808AR x 2 + RTL8218D | RTL8380M + IP808AR |
| Сетевые порты | 16 портов до 1000Mbps RJ-45, PoE+ 2 порта 100/1000 Mbps SFP 1 консольный порт RJ- 45 | 8 портов до 1000Mbps RJ- 45, PoE+ 2 порта 100/1000 Mbps SFP 1 консольный порт RJ-45 |
| Среда передачи | 10Base-T: UTP cat. 3, 4, 5 кабель (максимум 100м) 100Base-Tx: UTP cat. 5, 5е кабель (максимум 100м) 1000Base-T: UTP cat. 5е, 6 кабель (максимум 100м) 1000Base-X: MMF, SMF | |
| Стандарты | IEEE 802.3i, IEEE 802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3az, IEEE802.3af, IEEE802.3at | |
| PoE Стандарт | IEEE 802.3af/at, Active POE type A, контакты 1/2(+), 3/6(-) | |
| Watchdog | Да | |
| PoE Бюджет | 300 Вт | 120 Вт |
| Питание коммутатора | AC 100~240В, 50/60Гц | |
| Метод коммутации | Store-and-Forward | |
| Коммутационная способность | 36 Гбит/с | 20 Гбит/с |
| Пакетная буферная память | 4.1 Мбит | |
| Jumbo Frame | 12 Кбайт | |

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| Таблица MAC-адресов | 8000 адресов media access control (MAC) на систему | |
| Светодиоды состояния | Power, System, Link/Activity, PoE | |
| Требования к окружающей среде | Рабочая температура: от 0°C до 45°C Относительная влажность: от 10% до 90% Температура хранения: от -40°C до 70°C | |
| Физические характеристики | Размеры: 440x290x45мм Вес: 3.5 кг | Размеры: 270x180x45мм Вес: 1.2 кг |
| Система охлаждения | Активная | Пассивная |

Спецификация программного обеспечения

| L2 Features | | |
|-----------------------------------|-----------------------------|-----------------|
| 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 | Yes |
| Link Aggregation | Self-Loop Detection | Yes |
| | IEEE 802.3ad LACP | Yes |
| | Static Trunk | Yes |
| | Max. Group | 8 |
| | Max. Ports/Group | 8 |
| Traffic Load Balancing | | Yes |
| Static Routing | | Yes (IPv4/IPv6) |
| Address Resolution Protocol (ARP) | Static ARP | Yes |
| VLAN | | |
| VLAN | Static VLAN | 256 |
| | Port-based | Yes |

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| | 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 Authentication | 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 |

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| 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 Defense 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 |
| Dynamic VLAN Assignment | | 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 | 3 sessions |
| | Telnet (RFC854) | |

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| WebUI | HTTP | Yes |
| SNMP | v1 | Yes |
| | v2c | Yes |
| | v3 | Yes |
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| 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 |
| Discovery | | |
| IEEE 802.1AB Link Layer Discovery Protocol (LLDP) | | Yes |
| ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) | | Yes |
| Diagnostics | | |
| Mirroring | Port-based (Many to One) | 4 sessions |
| Syslog (RFC3164) | Local RAM | Yes |
| | Local Flash | Yes |
| | Remote Server | 8 |

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| System Diagnostics | CPU Utilization | Yes |
| | Memory Utilization | Yes |
| | Port Utilization | Yes |
| | Technical Support Log | Yes |
| Port Diagnostics | Cable Test | Yes |
| | Fiber Module Status | Yes |
| Network Diagnostics | Ping Test | Yes |
| | Traceroute | Yes |
| UDLD | | Yes |
| MIB | | |
| RFC1213 MIBII (System & Interface groups) | | Yes |
| RFC2819 RMON I (1,2,3, & 9 groups) | | Yes |
| RFC1215 Generic Traps | | Yes |
| RFC1493 Bridge | | Yes |
| RFC2674 Bridge MIB Extensions | | Yes |
| RFC2737 Entity | | Yes |
| RFC3635 Ethernet-Like | | Yes |
| RFC2863 Interface Group | | Yes |
| SNMP-Community-MIB | | Yes |
| SNMPv3-MIB | | Yes |