

Datasheet

32-Port 10G Uplink Managed Ethernet Fiber Switch

SUN-36032FM



SUN-36032FM è uno switch in fibra Ethernet gestito con uplink 10G. Dispone di 4 porte RJ45 10/100/1000Base-T e 24 porte in fibra 100/1000Base-X SFP e 4 porte in fibra 1/10G SFP+. Ogni porta può supportare l'inoltro wire-speed.

Il SUN-36032FM dispone di una funzione di gestione completa della rete L2+, supporta la gestione IPV4/IPV6, l'inoltro statico della linea a piena velocità, un meccanismo completo di gestione della sicurezza, una politica ACL/QoS e ricche funzioni VLAN. Supporta più protocolli di ridondanza di rete STP/RSTP/MSTP (<50ms) e (ITU-T G.8032) ERPS (<20ms) per migliorare il backup dei collegamenti e l'affidabilità della rete. In caso di guasto della rete unidirezionale, la comunicazione può essere ripristinata rapidamente per garantire una comunicazione ininterrotta. In base ai requisiti effettivi dell'utilizzo, è possibile configurare più servizi applicativi, come il controllo del traffico delle porte, la divisione delle VLAN e l'SNMP attraverso la modalità di gestione della rete Web.

■ Multi-fiber port 10G uplink

- ◇ All series support “gigabit RJ45 port and SFP fiber port “combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire speed forwarding.
- ◇ Support full duplex based on IEEE802.3x and half duplex based on backpressure.

■ Strong business processing capability

- ◇ ERPS/STP/RSTP/MSTP.
- ◇ Static and dynamic aggregation.
- ◇ IGMP V1/V2 and IGMP Snooping.
- ◇ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN, and QinQ configuration.
- ◇ QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- ◇ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.

■ Security

- ◇ 802.1X authentication.
- ◇ Port isolation, Storm control.
- ◇ IP-MAC-VLAN-Port binding.

■ Stable and reliable

- ◇ CCC, CE, FCC, RoHS.
- ◇ Low power consumption, galvanized steel metal casing.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, SYS, Link, L/A.
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable power output.

■ Easy operation and maintenance management

- ◇ HTTPS, SSLV3, and SSHV1/V2.

- ◇ RMON, system log, LLDP, and port traffic statistics.
- ◇ CPU monitoring, memory monitoring, Ping test, and cable diagnose.
- ◇ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

TECHNICAL SPECIFICATION

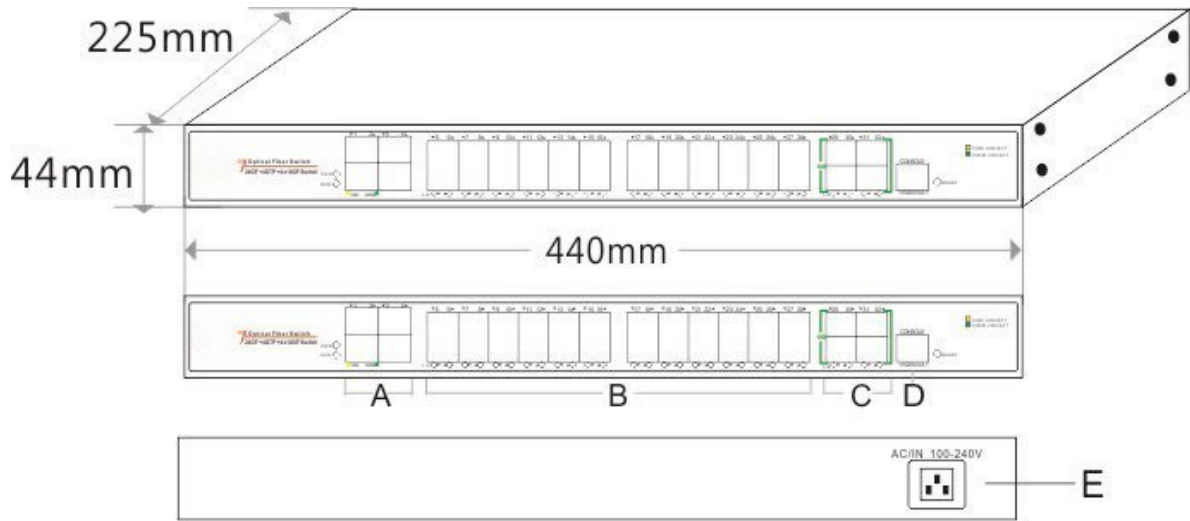
| Model | SUN-36032FM | SUN-38032FM |
|----------------------------------|---|-------------|
| Interface Characteristics | | |
| Fixed Port | 4*10/100/1000Base-T RJ45 ports (Data) 24*100/1000Base-X SFP fiber slot ports(Data) 4*1/10G SFP+ fiber slot ports(Data) 1*Console RS232 port (115200,N,8,1) | |
| Ethernet Port | Port 1-4 support 10/100/1000Base-T(X) automatic detection, full / half duplex MDI/MDI-X adaptive | |
| Twisted Pair Transmission | 10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter) | |
| SFP Slot Port | 1/10G SFP+ optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC) | |
| Optical Cable/ Distance | Multi mode: 850nm / 0 ~ 500m(1.25G), 0 ~ 300m(10G) single mode: 1310nm / 0 ~ 40km, 1550nm / 0 ~ 120km. | |
| Chip Parameter | | |
| Network Management Type | L2+ | L3 |
| Network Protocol | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X, IEEE802.3ae 10GBase-SR/LR IEEE802.3x | |
| Forwarding Mode | Store and Forward(Full Wire Speed) | |
| Switching Capacity | 598Gbps(non-blocking) | |

| | |
|---|---|
| Forwarding Rate@64byte | 101.18Mpps |
| MAC | 32K |
| Buffer Memory | 32M |
| Jumbo Frame | 9.6K |
| LED Indicator | Power: PWR (yellow), System:SYS(yellow), network: Link(yellow), fiber port: L/A (green) |
| Reset Switch | Yes, One-button factory reset |
| Power | |
| Total PWR / Input Voltage | 60W (AC100-240V) |
| Power Consumption | Standby<20W, Full Load<45W |
| Power Supply | Built-in power supply, AC100~240V 50-60Hz 1.0A |
| Physical Parameter | |
| Operation TEMP / Humidity | -20~+55°C, 5%~90% RH Non condensing |
| Storage TEMP / Humidity | -40~+80°C, 5%~95% RH Non condensing |
| Dimension (L*W*H) | 440*225*44mm |
| Net /Gross Weight | <3.2kg / <3.8kg |
| Installation | Desktop, 19 inch 1U cabinet |
| Certification | |
| Lightning protection / protection level | Lightning protection: 6KV 8/20us, Protection level: IP30 |
| Certification | CCC,CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS |
| Network Management Features | |
| Interface | IEEE802.3X (Full-duplex) Port temperature protection setting |

| | | |
|--------------------------|---|--|
| | Port green Ethernet Energy-saving setting Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps. | |
| Layer 3 Features | L2+ network management ,IPV4/IPV6 management L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs | L3+ network management ,IPV4/IPV6 management L3 full wire-speed forwarding , Static route, Default route @ 128 pcs, APR @ 1024 pcs |
| VLAN | 4K VLAN based on port, IEEE802.1q VLAN based on the protocol VLAN based on MAC Voice VLAN, QinQ configuration Port configuration of Access, Trunk, Hybrid | |
| Port Aggregation | LACP, Static aggregation Max 16 aggregation groups and 8 ports per group. | |
| Spanning Tree | STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s) | |
| ERPS Networking Protocol | G.8032 (ERPS), Recovery time less than 20ms 250 Ring at most, Max 1024 devices per ring. | |
| Multicast | MLD Snooping v1/v2,Multicast VLAN IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out | |
| Port Mirroring | Bidirectional data mirroring based on port | |
| QoS | Flow-based Rate Limiting Flow-based Packet Filtering 8*Output queues of each port 802.1p/DSCP priority mapping Diff-Serv QoS,Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR) | |
| ACL | Port-based Issuing ACL,ACL based on port and VLAN L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP | |

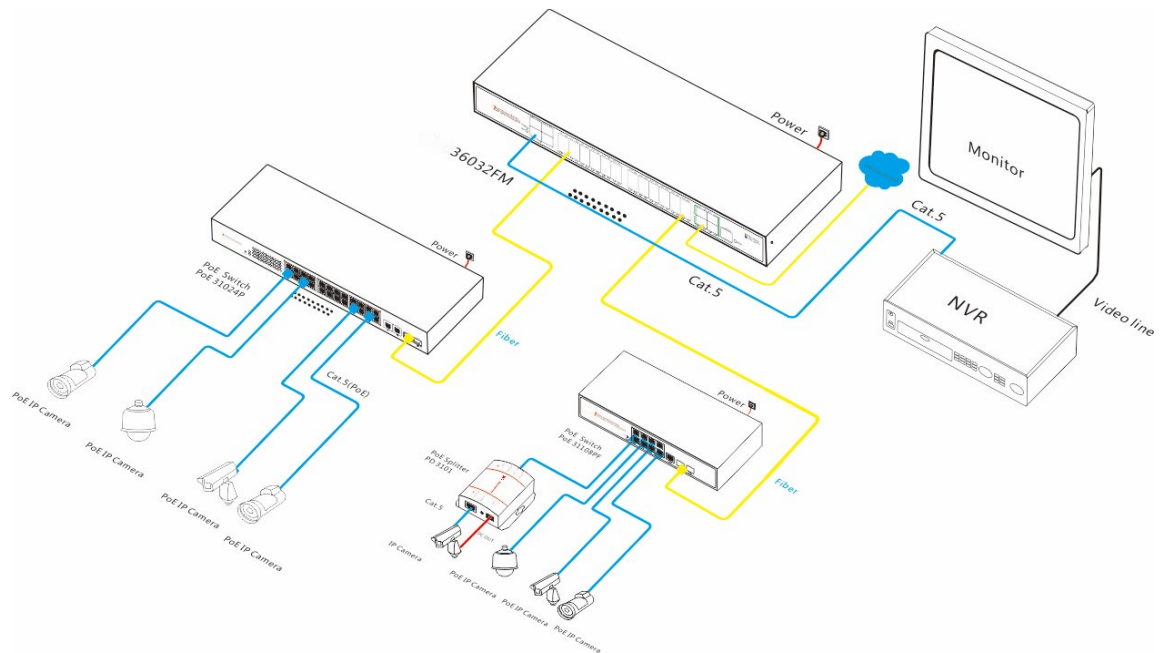
| | |
|------------|---|
| | Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc. |
| Security | <p>IP-MAC-VLAN-Port binding</p> <p>ARP inspection, Anti-DoS attack</p> <p>AAA & RADIUS, MAC learning limit</p> <p>Mac black holes, IP source protection</p> <p>IEEE802.1X & MAC address authentication</p> <p>Broadcast storm control, Backup for host datum</p> <p>SSH 2.0, SSL, Port isolation, ARP message speed limit</p> <p>User hierarchical management and password protection</p> |
| DHCP | DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay |
| Management | <p>One-key recovery</p> <p>Cable Diagnose, LLDP</p> <p>Web Management (HTTPS)</p> <p>NTP, System work log, Ping Test</p> <p>CPU instant utilization status view</p> <p>Console/AUX Modem/Telnet/SSH2.0 CLI</p> <p>Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP</p> <p>V1/V2C/V3</p> |
| System | <p>Category 5 Ethernet network cable</p> <p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome</p> <p>V42 or higher, Microsoft Internet Explorer 10 or later;</p> <p>TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network</p> |

DIMENSION



- A. 4*10/100/1000M RJ45 ports
- B. 24*100/1000M SPF ports
- C. 4*1/10G SPF+ ports
- D. Console port
- E. Power input port AC100-240V, 50/60Hz

APPLICATION



OPTICAL MODULE INFORMATION

| Product | Model | Description | Unit |
|----------------------------|---------------|--|------|
| 1.25G Optical Module | SUN-2630 | SFP optical module, 1.25G, multi mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull. | PC |
| | SUN-2632 | SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |
| | SUN-2612-T | SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |
| | SUN-2613-R | SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |
| | SUN-2612-T-SC | SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull. | PC |
| | SUN-2613-R-SC | SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull. | PC |
| Power Module | SUN-2633 | 1.25G SFP optical module transfers to 10/100/1000M RJ45 port. | PC |
| 10G Optical Module | SUN-6630 | SFP+ optical module, 10G Multi-mode dual fiber 850nm, transmission distance: 300m, LC interface, support DDM function, support hot plug and pull. | PC |
| | SUN-7832 | SFP+ optical module, 10G Single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |
| | SUN-7832-33 | SFP+ optical module, 10G Single-mode single fiber TX1330nm/RX1270nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |

ORDERING INFORMATION

| Model | Description |
|-------------|---|
| SUN-36032FM | L2+ managed Ethernet aggregation fiber switch with 4* 10/100/1000M RJ45 ports and 24*100/1000M SFP slot ports and 4*1/10G SFP+ slot ports, Built-in 60W power supply. Support 1U/19 inch rack installation. |
| SUN-38032FM | L3 managed Ethernet aggregation fiber switch with 4* 10/100/1000M RJ45 ports and 24*100/1000M SFP slot ports and 4*1/10G SFP+ slot ports, Built-in 60W power supply. Support 1U/19 inch rack installation. |

Note: Ethernet fiber switch does not match the optical module by default.

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