

OFS-M3IXF4GSF16T8

Description



- Interface specifications: 4 10G optical ports + 24 1000M electrical ports
- Wide temperature working: -40℃~80℃ ultra-wide working temperature range
- Wide voltage work: AC/DC 100-240V
- Network redundancy: support STP/RSTP/MSTP, support ERPS (self-healing time <20ms)
- Multicast management: support IGMP Snooping/MLD Snooping
- VLAN: Support 802. 1Q VLAN, QinQ, Voice VLAN, MAC VLAN, IP VLAN
- Link aggregation: support link static/dynamic aggregation, providing perfect bandwidth utilization
- Clock synchronization: support PTP protocol
- Security management: support ACL access control list, support 802. 1X
- Management function: support WEB, CLI, SNMP and other management methods
- Monitoring and maintenance: support port mirroring, interface status monitoring, log management

Features

Product Features

OFS-M3IXF4GSF16T8 switch is a 10G layer-3 switch launched by our company, equipped with 4 10G SFP+ optical ports and 24 10/100/1000M Base-T adaptive electrical ports, with advanced Hardware processing capability and the most abundant business features. It supports IPv4/IPv6 hardware dual-stack and wire-speed forwarding, enabling customers to calmly cope with the upcoming IPv6 era and provide high-capacity switching capabilities.

The OFS-M3IXF4GSF16T8 switch has an operating temperature of -40℃ to 80℃, and has super robustness to adapt to various harsh environments. DIN rail installation features, wide temperature operation, so that

The OFS-M3IXF4GSF16T8 switch becomes a plug-and-play industrial-grade device, providing a reliable and convenient solution for users' Ethernet device networking.

Functional characteristics

Rich port types, flexible port expansion

OFS-M3IXF4GSF16T8 switch supports diversified ports, which can meet different networking requirements of large-scale network aggregation or small and medium-sized network core.

powerful processing capability

OFS-M3IXF4GSF16T8 switch is based on the powerful and stable processing capability of VCore-III MIPS-based CPU;

Perfect security control strategy

Support port-based user IP+MAC address authentication, port-based 802.1X authentication,

Support the ACL function based on the third and fourth layers, effectively defending against ARP attacks and viruses;

Support perfect storm control function, which can suppress broadcast, multicast and unicast storms.

Support unique ARP intrusion detection function, which can effectively prevent hackers or attackers from implementing increasingly popular "ARP spoofing attacks" through ARP packets;

Support IP Source Guard feature to prevent illegal address spoofing including MAC spoofing, IP spoofing, MAC/IP spoofing, and DoS attacks caused by large traffic address spoofing.

Provides the DHCP Snooping (listening) function. By establishing and maintaining the DHCP Snooping binding table, it realizes the interception of the access user's MAC address, IP address, lease period and other information, and solves the problem of DHCP

User's IP and port tracking to locate the problem.

Complete reliability protection mechanism, convenient management and maintenance

The OFS-M3IXF4GSF16T8 switch implements flow classification and flow rate limitation on the packets sent to the CPU through the CPU protection policy, so as to avoid the attack and resource consumption of illegal attack packets on the CPU;

Support STP, RSTP, MSTP and other spanning tree protocols, fast convergence, improve fault tolerance, ensure stable operation of the network and load balancing of links, rational use of network channels, and improve redundant links utilization rate;

Supports the industrial-grade Ethernet ring network protocol ERPS, provides millisecond-level fast service switching performance, and ensures uninterrupted services. Moreover, the protocol is simple and reliable, the switching performance is high, the maintenance is convenient, and the topology is flexible.

To greatly facilitate the management and planning of the network for users;

It adopts industrial-grade components, has anti-lightning, anti-overvoltage, and anti-surge design, and has dual power input to ensure the normal operation of the network in bad natural weather and unstable voltage environments.

Through a simple visual WEB interface (supporting http and https protocols), various functions of the switch can be easily and conveniently operated;

Support SNMP V1/V2/V3 network management to configure and manage devices;

Support command line configuration (CLI), management through Telnet, Console port;

Support SSH2.0 and other encryption methods, making management more secure;

Support LLDP protocol to make network management easier;

Support NTP clock protocol, can automatically synchronize network time;

Technical parameter list

Product port:

4 10 Gigabit optical ports 16 Gigabit optical ports + 8 Gigabit electrical ports

Management port:

1 Console port

Reset button:

1 factory reset key

Exchange capacity:

1.2Tbps

Packet forwarding rate:

406Mpps

MAC address:

Support 32K MAC address table; support automatic update, two-way learning;

Operating temperature:

—40~80°C

storage temperature:

—40~85°C

Working humidity:

10%~90% non-condensing

Storage Humidity:

5%~95% non-condensing

Input voltage:

AC/DC 100-240V

Support built-in overcurrent 4.0A protection

Dimensions:

328x172x44mm (LxWxH)

Total Weight:

<3Kg

Machine power consumption:

<35W

Port aggregation:

Support static aggregation and dynamic aggregation

Port mirroring:

Support many-to-one port mirroring, there is no limit to the number of mirroring source ports

Loop Protection:

Support loop detection/loop avoidance

Ring protocol:

Support industrial-grade ring network protocol ERPS

Port flow control:

Support half-duplex based on back pressure control;

Port speed limit:

Support full duplex based on PAUSE frame;

IP routing:

Supports port-based I/O bandwidth management

Support static routing;

Support dynamic routing RIP, RIPng, OSFP, OSPFv3;

Support VRRP (Virtual Routing Redundancy Protocol)

QOS:

SP (Strict Priority), strict priority round-robin algorithm;

WFQ (Weighted Fair Queuing) weighted fair queuing;

WRR (Weighted Round Robin), weighted priority round-robin algorithm;

Random Early Detect (RED), random early detection algorithm;

WeightedRandomEarlyDetection (WRED), weighted random early detection

measurement algorithm;

Head Of Line, anti-congestion mechanism;

Best-Effort Service, try our best to serve;

First come first served, first come first served algorithm;

802. 1p port queue priority algorithm;

Cos/Tos, QOS mark;

Network line sequence:

Support Auto-MQLDIX function, automatically identify straight-through network cable and crossover network cable

system maintenance:

Support configuration file upload/download; Support upgrade package upload;

Support WEB to restore factory configuration; Support system log function;

Support Ping detection, tracert detection, network cable detection;

Support WEB interface management (support http and https protocols);

Support CLI interface management;

Support Telnet remote management;

Support SSH 2.0;

Support SNMP network management;

Support RMON;

Support LLDP;

Negotiation mode:

Electrical port supports 10/100/1000M auto-negotiation
The optical port supports 1G/2.5G/10G multiple rate modes

Multicast control:

Support IGMP Snooping;
Support MLD Snooping (Multicast Listener Discovery Snooping);

VLAN:

Support up to 4096 VLANs;
Support 802.1Q standard VLAN;
Support QinQ
Support Voice VLAN, MAC VLAN, IP VLAN;

Storm Suppression:

Support suppression of broadcast, multicast, unicast, etc.

spanning tree:

Support STP Spanning Tree Protocol;
Support RSTP Rapid Spanning Tree Protocol;
Support MSTP Multiple Spanning Tree Protocol;

Support protocol standards:

IEEE 802.3ad, link aggregation protocol;
IEEE 802.3, 10BASE-T Ethernet;
IEEE 802.3u, Fast Ethernet standard;
IEEE 802.3ab, Gigabit Ethernet standard;
IEEE 802.3z, Gigabit Ethernet optical fiber standard;
IEEE 802.3ae, 10G Ethernet standard;
IEEE 802.3x, full-duplex Ethernet data link layer flow control;
IEEE 802.3az, EEE energy-efficient Ethernet standard;

Security features:

The hardware supports IP ACL, MAC ACL, Vlan ACL, support based on three, Layer 4 ACL function;
The hardware supports port-based IP+MAC binding;
Support IP Source Guard; Support ARP Detection function;
Support IEEE 802.1x port authentication; Support Radius authentication;

Clock protocol:

Support NTP
Support PTP (1588v2)

DHCP:

Support DHCP Client;
Support DHCP Server;
Support DHCP Snooping;
Support DHCP Relay;

Mean time between failures:

300,000 hours

Ordering Information

OFS-M3IXF4GSF16T8	4*10gBase-FX, 16*1000Base-FX,8*10/100/1000Base-TX (SFP) L3, internal PS
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