

DES - S4MS12M

16 Ports Full Gigabit Managed Ethernet Fiber Switch

4*GE+12*GF SFP Managed Fiber Switch



Introduction

The DES - S4MS12M series is a full gigabit managed Ethernet fiber switch. It has 4*10/100/1000vBase-T RJ45 ports and 12*100/1000Base-X SFP fiber slot ports. Each port can support wire-speed forwarding.

The DES - S4MS12M has the layer two plus full network management function, supports IPV4/IPV6 management, supports static route full line rate forwarding, supports complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as port traffic control, VLAN division, and SNMP through the Web network management mode. It satisfies high-density network application environment and is suitable for medium, large-scale scenes such as hotel, campus, park, shopping mall, scenic spot, hospital, bank to form an economical, efficient, and reliable communication network.

TECHNICAL SPECIFICATION-

MODEL	DES - S4MS12M
Interface	4*10/100/1000Base-T RJ45 ports (Data) 12*100/1000Base-X SFP ports (Data) 1*Console RS232 port (115200, N,8,1)
Managed Type	L2+
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3u 100Base-FX; IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x
Ethernet Port Feature	Port 1-4 can support 10/100/1000Base-T auto detect, full/half duplex MDI/MDI-X adaptive
Fiber Port Feature	155M SC /gigabit SFP fiber interface (Fiber module is not included, need to order separately, module options include single/multi-mode, single/dual fiber, LC)
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	32Gbps (non-blocking)
Forwarding Rate@64byte	20.83Mpps
MAC	8K
Buffer Memory	6M
Jumbo Frames	9.6K
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)
Optical Fiber Cable	Multi-mode:850nm 0~300M(10G) ,850nm 0~500M (1.25G); Single-mode:1310nm 0~40KM,1550nm 0~120KM.
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1A
LED Indicator	Power indicator:PWR(yellow); system indicator:SYS(yellow); network indicator: Link(yellow); Fiber port indicator L/A(green)
Reset Button	yes, support one key to restore factory settings
Operation TEMP/Humidity	-20~+55°C;5%~90% RH Non condensing
Storage TEMP /Humidity	-40~+80°C;5%~95% RH Non condensing
Net /Gross Weight	<1.5kg / <2kg
Installation	Desktop,19-inch 1U cabinet installation
Lightning protection / Protection Level	Lightning protection :4KV 8/20us; Protection Level: IP30
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
Warranty	3 years, lifelong maintenance.

MANAGED SERIES FEATURES

Interface	<p>IEEE802.3x flow control (full duplex)</p> <p>Broadcast storm suppression for port rate</p> <p>support speed limit for incoming and offline message traffic, with a minimum particle size of 64Kbps.</p> <p>Temperature protection setting</p> <p>Energy saving configuration of port IEEE Ethernet</p> <p>Support DDM</p>
VLAN	<p>Support port based VLAN (4K), IEEE802.1q</p> <p>Support protocol based VLAN</p> <p>Support for MAC address-based VLAN</p> <p>Support Voice VLAN</p> <p>Support Access, Trunk, Hybrid three types of port configuration</p> <p>Support QinQ configuration</p>
Port Aggregation	<p>Support LACP</p> <p>Support static polymerization</p> <p>Support the largest 7 aggregation groups, each aggregation group supports 8 ports.</p>
Spanning Tree	<p>STP (IEEE802.1d)</p> <p>RSTP (IEEE802.1w)</p> <p>MSTP (IEEE802.1s)</p>
Industrial Ring Network Protocol	<p>Support G.8032 (ERPS), support 255 loops at most, and supports 254 devices per ring.</p> <p>The self-healing time of the ring network is less than 20ms</p>
Multicast	<p>Support IGMP Snooping V1/V2 and support 1024 multicast groups at most.</p> <p>Support the user's quick departure mechanism</p> <p>Support MLD Snooping V1/V2</p> <p>Support multicast VLAN</p>
Image	<p>Bi-directional traffic mirroring supporting the basic port</p>
QoS	<p>Diff-Serv QoS</p> <p>Each port supports 8 output queues</p> <p>Support 802.1p/DSCP priority mapping</p> <p>Support queue scheduling mechanism (SP, WRR, SP+WRR)</p> <p>priority tag Mark/Remark</p> <p>stream based packet filtering</p> <p>Support for stream-based redirection</p> <p>Support flow-based speed limit</p>
ACL	<p>Support L2 to L4 packet filtering function, can match the first 80 bytes of the message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL.</p> <p>Support ACL based on port and VLAN</p>

<p>Safety Characteristics</p>	<p>Support user grading management and password protection Support IEEE802.1X authentication / centralized MAC address authentication Support AAA&RADIUS authentication Support the number of MAC address learning restrictions Support MAC address black hole Support SSH 2.0 to provide secure passwords for user login. Support SSL to ensure data transmission security Support port isolation Support the speed limit function of ARP message Support IP source address protection Support ARP intrusion detection function Support against DoS attacks Support port broadcast message suppression Support host data backup mechanism Binding capabilities of IP+MAC+VLAN+ ports</p>
<p>DHCP</p>	<p>Support DHCP Client Support DHCP Snooping Support DHCP Serve Support DHCP Relay</p>
<p>Management and Maintenance</p>	<p>Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration Support WEB network management (HTTPS) Support FTP, TFTP, Xmodem, SFTP file download management Support SNMP V1/V2C/V3 Support one bond reduction Support NTP clock Support system work log Support Ping detection Support cable state detection Support CPU instant utilization status view Support link layer discovery protocol LLDP Support NMS intelligent management center</p>
<p>System Requirements</p>	<p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; Cat5e or later Ethernet cable; TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux, or Mac OSX) installed on on every computer in the network.</p>

HIGHLIGHTS-

- ☆ All series supports “Gigabit Ethernet port and Gigabit uplink SFP fiber slot port “combination, which enables users to flexibly build networking to meet the needs of various scenarios;
- ☆ Support QOS, STP/RSTP, IGMP, DHCP, SNMP, WEB, VLAN, ERPS ,DDM etc.;
- ☆ Switching capacity:Gbps, MAC table:8K;
- ☆ Compatible with 1U rack, built-in internal power adapter;
- ☆ 3 years warranty.

Packing List-

CONTENT	QTY	UNIT
16 Ports Managed Fiber Switch with 12*1G SFP DES - S4MS12M	1	SET
User Guide	1	PC
Warranty Card	1	PC