



SEPITAM

ONE STEP SMARTER

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TYPE:

Sepitam-FS212F-DGM

Sepitam enterprise-grade switches are available in managed, unmanaged, PoE, and non-PoE models. The advanced PoE technology simplifies powering various network devices, and high-capacity switches enhance network scalability. With robust management features, these switches enable Layer 2 protocol configurations, delivering superior network efficiency and security.



- ▶ TYPE: Sepitam-FS212F-DGM
- ▶ Technical Specification of Sepitam-FS212F-DGM
- ▶ 12*10/100/1000Base-X SFP fiber ports & 2*10/100/1000Base-T RJ45 ports Enterprise Managed switch

▶ Description:

The Sepitam-FS212F-DGM series is a full gigabit managed Ethernet fiber switch. It has 2*10/100/1000Base-T RJ45 ports and 12*100/1000Base-X SFP fiber slot ports. Each port can support wire-speed forwarding.

The Sepitam-FS212F-DGM 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.

▶ Properties:

- Gigabit multi fiber port access, 10G uplink
- 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 non-blocking wire speed forwarding.
- Support full duplex based on IEEE802.3x and half duplex based on backpressure.

Strong business processing capability

- Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs, and support QinQ configuration.
- Support QoS, support port based, 802.1P based and DSCP based three priority modes and Equ, SP, WRR, SP+WRR four queue scheduling algorithms.
- ACL supports the filtering of data packets by configuring matching rules, processing operations and time permissions, and provides a flexible access control strategy.
- Support IGMP V1/V2 multicast protocol and support IGMP Snooping to meet the multi terminal HD video surveillance and video conference access requirements.
- Support industrial fast Ethernet V-Ring ERPS,STP,RSTP, and MSTP production tree protocol, eliminates two layers of loops, and realizes link backup.
- Support static convergence and dynamic convergence, effectively increases link bandwidth, achieves load balancing, link backup, and improves link reliability.

Complete safety protection mechanism

- Support 802.1X authentication, provide authentication function for LAN computer, and control the authorized status of controlled port according to the result of authentication.
- Support port isolation
- Support port broadcast storm suppression
- Support port +MAC binding, IP+MAC+ port binding function

The equipment is stable and reliable

- The host has low power consumption, active cooling design of the fan, galvanized steel, and metal casing, and super heat dissipation to ensure stable operation of the product.
- The equipment has the Internet access license by MIIT, meets the CCC standard, fully meet the devices of CE, FCC, and RoHS security regulations, and is safe and reliable to use.



- Self-developed power supply , high redundancy design, provides long-term stable PoE power output.
- The user can easily understand the working status of the device through the power indicator (PWR), system status indicator (SYS) ,and port status indicator (Link,L/A).

Easy operation and maintenance management

- Support various management and maintenance methods such as Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- Support encryption methods such as HTTPS, SSLV3, and SSHV1/V2 for more secure management.
- Support RMON, system log, port traffic statistics, easy network optimization and transformation.
- Support LLDP, which is convenient for the network management system to query and judge the communication status of the link.
- Support CPU monitoring, memory monitoring, ping detection, cable length detection.

► Specifications:

Model	Sepitam-FS212F-DGM
Interface	2*10/100/1000Base-T RJ45 ports (Data) 12*100/1000Base-X RJ45 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



Model	Sepitam-FS212F-DGM
Ethernet Port Feature	Port 1-2 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	256Gbps (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(\leq 100 meter) ; 100BASE-TX: Cat5 or later UTP(\leq 100 meter) 1000BASE-T:Cat5e or later UTP(\leq 100 meter)
Optical Fiber Cable	Multi-mode:850nm 0~300M(10G) ,850nm 0~500M (1.25G); Single-mode:1310nm 0~40KM,1550nm 0~120KM.
Total PWR / Input Voltage	30W (AC100-240V)
Power Consumption	Standby<8W; Full Load<15W
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



Model	Sepitam-FS212F-DGM
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)	270*181*44.5mm
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;
Managed Series Feature	
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>
Layer3 Function	<p>Support L2+ managed function,</p> <p>Support IPV4/IPV6 management</p> <p>Support layer3 routing forwarding,</p> <p>Support different network segments, communication between different VLAN</p> <p>Support static routing/default routing, the maximum number of 128</p> <p>Support ARP protocol, the maximum number of entries is 1024</p>
VLAN	<p>Support port based VLAN (4K), IEEE802.1q</p> <p>Support protocol based VLAN</p>



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VLAN	<ul style="list-style-type: none"> Support for MAC address-based VLAN Support Voice VLAN Support Access, Trunk, Hybrid three types of port configuration Support QinQ configuration
Port Aggregation	<ul style="list-style-type: none"> Support LACP Support static polymerization Support the largest 7 aggregation groups, each aggregation group supports 8 ports.
Spanning Tree	<ul style="list-style-type: none"> STP (IEEE802.1d) RSTP (IEEE802.1w) MSTP (IEEE802.1s)
Industrial Ring Network Protocol	<ul style="list-style-type: none"> Support G.8032 (ERPS), support 255 loops at most, and supports 254 devices per ring. The self healing time of the ring network is less than 20ms
Multicast	<ul style="list-style-type: none"> Support IGMP Snooping V1/V2 and support 1024 multicast groups at most. Support the user's quick departure mechanism Support MLD Snooping V1/V2 Support multicast VLAN
Image	<ul style="list-style-type: none"> Bi-directional traffic mirroring supporting the basic port
QoS	<ul style="list-style-type: none"> Diff-Serv QoS Each port supports 8 output queues Support 802.1p/DSCP priority mapping Support queue scheduling mechanism (SP, WRR, SP+WRR) priority tag Mark/Remark stream based packet filtering Support for stream based redirection Support flow based speed limit

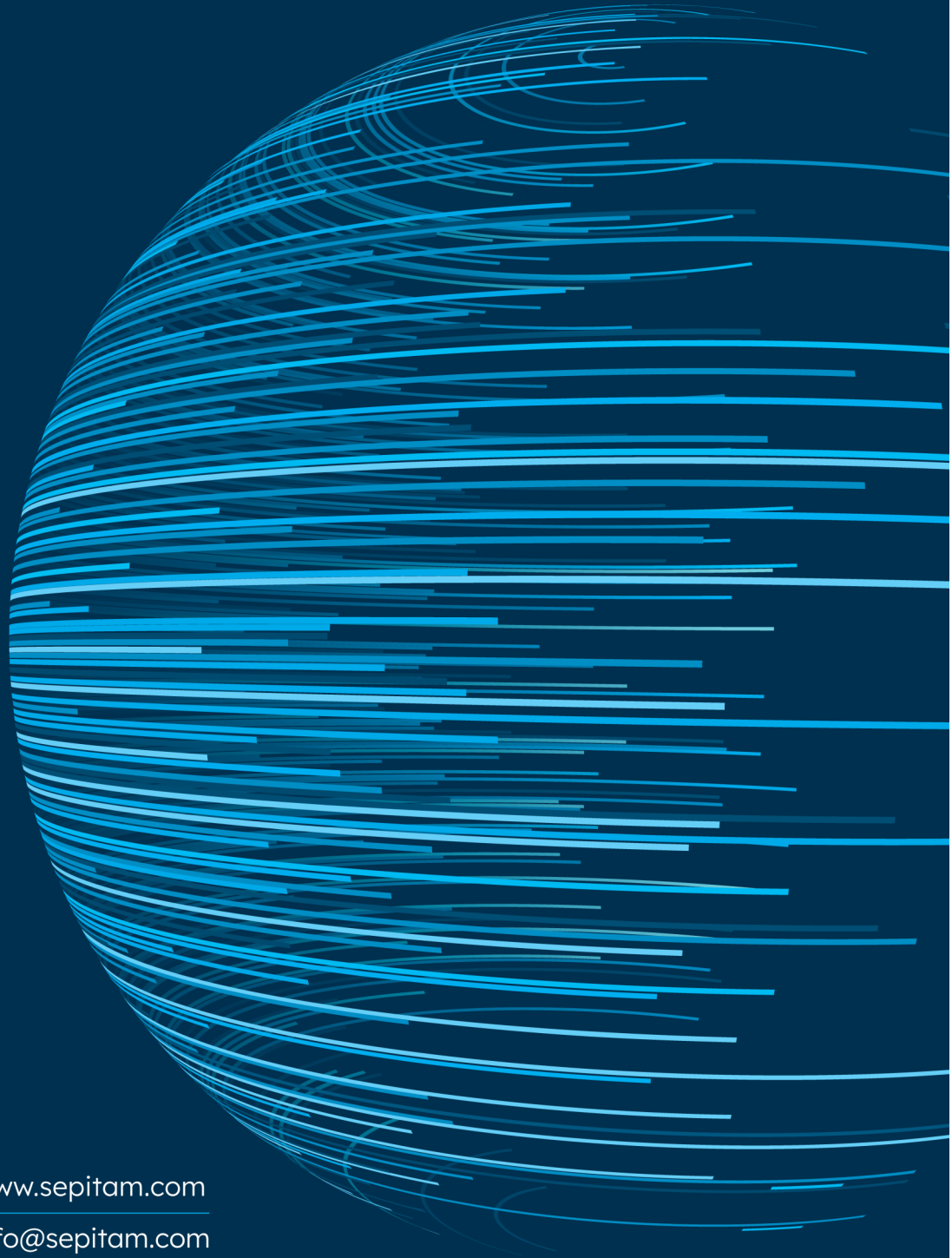


Model	Sepitam-FS212F-DGM
ACL	<p>Support L2 to L4 packet filtering function, can match the first 80 bytes of the message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL.</p> <p>Support ACL based on port and VLAN</p>
Safety Characteristics	<p>Support user grading management and password protection</p> <p>Support IEEE802.1X authentication / centralized MAC address authentication</p> <p>Support AAA&RADIUS authentication</p> <p>Support the number of MAC address learning restrictions</p> <p>Support MAC address black hole</p> <p>Support SSH 2.0 to provide secure passwords for user login.</p> <p>Support SSL to ensure data transmission security</p> <p>Support port isolation</p> <p>Support the speed limit function of ARP message</p> <p>Support IP source address protection</p> <p>Support ARP intrusion detection function</p> <p>Support against DoS attacks</p> <p>Support port broadcast message suppression</p> <p>Support host data backup mechanism</p> <p>Binding capabilities of IP+MAC+VLAN+ ports</p>
DHCP	<p>Support DHCP Client</p> <p>Support DHCP Snooping</p> <p>Support DHCP Serve</p> <p>Support DHCP Relay</p>
Management And Maintenance	<p>Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration</p> <p>Support WEB network management (HTTPS)</p>



Model	Sepitam-FS212F-DGM
Management And Maintenance	<p>Support FTP, TFTP, Xmodem, SFTP file download management</p> <p>Support SNMP V1/V2C/V3</p> <p>Support one bond reduction</p> <p>Support NTP clock</p> <p>Support system work log</p> <p>Support Ping detection</p> <p>Support cable state detection</p> <p>Support CPU instant utilization status view</p> <p>Support link layer discovery protocol LLDP</p> <p>Support NMS intelligent management center</p>
System Requirements	<p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;</p> <p>Cat5e or later Ethernet cable;</p> <p>TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OSX) installed on on every computer in the network.</p>

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Info@sepitam.com