

Industrial Rack Managed Network Switch

SIL 516S8C4M



Commercial Managed
Top-of-Rack Switch

SIL 516S8C4M
28 Port Commercial Rack
Managed Network Switch
16 SFP, 8 Combo, 4 SFP+

OVERVIEW

The fully managed, layer 3 rack mountable SilverNet 5168C4M Series Switches are designed for commercial use. The sleek Top-of-Rack design enables efficient spacing in rack cabinets, making them ideal for installation in enterprise, ITS and utility market networks.

The Gigabit Managed Switch offers 16 x Gigabit SFP Downlink Ports, 8 x RJ45+SFP Combo Ports and 4 x 10Gb SFP Uplink Ports.

The fanless design of the SIL 5168C4M utilises natural cooling and ensures proficient heat dissipation. This allows more power consumption to be used elsewhere, increasing processing power.

In areas where effective use of space and interconnectivity are vital, for example large scale enterprise networks, these Switches are ideal. They have an extended temperature range which enables them to continue their high-performance in unconditioned outdoor cabinets and industrial environments. Encased in a high strength metal enclosure, these Switches are designed to withstand the elements.

Reliable and robust, the SilverNet 5168C4M is fully compliant with the IEEE802.3, 802.3u, 802.3ae, 802.3x, 802.1D, 802.1Q, and 802.1p

The fibre optics ports feature a modular SFP slot suitable for any kind of MSA-compliant pluggable 1.25Gbps SFP transceiver or 10Gbps SFP+ transceiver.

Features

- 16 x SFP, 8 x Combo, 4 x 10G SFP+ Ports
 - Up to 12Mbit Cache, supporting up to 4k Video Traffic
 - 128Gbps Bandwidth
 - 10Kbytes Maximum Packet Length
 - 16K MAC Address Table
 - Store and Forward (Full/Half Duplex Mode)
 - <7µs Response Time
 - Supports IEEE802.3, 802.3u, 802.3ae, 802.3x, 802.1D, 802.1Q, 802.1p
- AC Power Supply
 - Low Power consumption ≤45W
 - Operating temperature (0°C ~+55°C)
 - Overcurrent Protection
 - Reverse Polarity Protection
 - Ethernet ESD protection
 - IP30 Protection
 - High Strength Metal Enclosure

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Technical Specifications

Part No.	SIL 516S8C4M
Ports	
Total number of Ports	28
Gigabit Ethernet	8
SFP	16
Combo	8 x RJ45 ; 8 x SFP
SFP+	4
Performance	
Switch Bandwidth	128Gbps
MAC address size	16K
Processing type	Store and Forward
Time delay	<7µs
Jumbo Frames	12KBytes
Packet buffer space	12Mbits
MTBF	>250,000 Hours
Power	
Power input	AC 220V-240V, IEC C14 inlet
Power consumption	≤45W
Standards	
IEEE Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ae, IEEE 802.3x, IEEE 802.1D, IEEE 802.1Q, IEEE 802.1p
EMC/EMI/EMS	FCC Part15 Class A IEC 61000-3-2 CE-EMC/LVD RoHS 2011/65/EU Annex II(EU) EN61000-4-2 (ESD):Contact: ± 8kV, Air: ± 15kV IEC61000-4-5 Surge: Power: ± 6kV; RJ45: ± 4kV/ ± 6kV(PoE)
Safety	IEC62368-1:2020+A11:2020
Physical	
Dimensions and weight	482.5mm x 300mm x 44.45mm ; 3.8kg
Enclosure	IP30 Protection, Aluminium Alloy
Mounting	1U Rack Mount
Environment	
Operating Temperature	0~+55°C (Storage -40~+85°C)
Humidity	5-95% (non-condensing)

Switching Features

Part No.	SIL 516S8C4M
Software Features	
Management	Console, Telnet, SSH 2.0, Web UI, SNMP v1/v2/v3, RMON, UDLD, DDM, Port Mirror, LLDP
File Management	Firmware Upgrade/Backup, Configuration Download/Backup, Reboot, hostname
MAC Address	Static/dynamic learning; aging; filtering; blackhole MAC
VLAN	4K VLAN; GVRP; Port/MAC/Protocol VLAN; Voice VLAN; Surveillance VLAN
Spanning Tree	STP, RSTP, MSTP; Edge port; BPDU filter; BPDU protection
QoS	802.1p/DSCP remark; SP/WRR/SP+WRR; rate limiting
Multicast	IGMPv2/v3 Snooping; MLD Snooping; MVR
DHCP	Server, Client, dynamic address assignment
Routing	IPv4: Static, RIPv1/v2, OSPFv2; static ARP IPv6: Static routing; neighbor display
Reliability	LACP; ERPSv1/v2; VRRP
Security	L2/L3/L4 ACL; Port Isolation; AAA/RADIUS/TACACS+; Anti-DDoS, SYN/UDP Flood, LAND, ARP spoofing; DHCP Snooping, Option82; Storm control; Port security; IP+MAC+Port+VLAN binding

Dimension Diagram

Mechanical Drawing

482.5 x 300 x 44.45

Unit: mm

