

Series 5 Commercial Managed 10G Network Switch

SIL 54648MP



Commercial Gigabit + 10G Managed PoE Switch

OVERVIEW

The SilverNet Commercial Gigabit PoE+ Managed Switch is a fully managed layer 2+ switch that provides stable and reliable Ethernet transmission.

The Commercial Gigabit PoE+ Managed Switch has 48 x 10/100/1000Base-T PoE+ ports with 6 x 10G SFP+ and is powered using 240V AC.

The SilverNet Commercial Gigabit + 10G Managed Switch is ideal for expanding your business network. The switch has configurable Layer 2+ network features such as VLANs, QoS, ACLs, IGMP snooping and more.

The SilverNet Commercial Gigabit + 10G Managed Switch delivers great performance for growing networks and is ideal for use with VoIP phones, IP cameras and wireless access points.

Features

- 48 x 10/100/1000Base-T RJ45 ports
 - 6 x 10G SFP+ ports
 - RJ45 supports auto MDI/MDI-X function
 - Auto negotiation speed, half/full duplex
 - Store and forward
 - Max packet size: 12K bytes
 - MAC address size: 32K
- IGMP Snooping
 - Web Management Interface
 - Spanning Tree
 - Surge protection
 - Low noise level (74 dBA)
 - Operating Temperature (0°C ~+50°C)
 - Rack mountable

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Technical Specifications

Part No.	SIL 54648MP
Ethernet Interface	
Ports	48×10/100/1000M Base-TX RJ45 6×10Gigabit SFP plus
Port Mode (Tx)	Auto Negotiation Full/Half Duplex Mode Auto MDI/MDI-X Connection
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for flow control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.1X for authentication IEEE 802.3ad for Port Trunk with LACP
Packet Buffer Size	16Mbits
Maximum Packet Length	Up to 12K
MAC Address Table	32K
Transmission Mode	Store and Forward (full/half duplex mode)
Forwarding Rate	160.7Mpps(64-byte packet size)
Switch Fabric	Backplane bandwidth: 216Gbps
Max. No. of VLAN	256
VLAN ID Range	VID 1 to 4094
Physical Characteristics	
Housing	Metal
IP Rating	IP30
Dimensions	440mm×250mm×45mm
Installation	Rack Mount
Weight	4000g
Environmental	
Operating Temperature	0°C ~ 50°C
Operating Humidity	5%~90% (non-condensing)
Storage Temperature	-20°C ~ 70°C
MTBF	108,182@MIL-HDBK-217F GB
Cooling	2 x Cooling fans
Noise Level	74 dBA
Power Characteristics	
PoE Ports	Port 1-48
Power Supply Pin	Default: 1/2(+), 3/6(-)
Max Power Per Port	IEEE802.3 af/at 30W
Total PWR	800W
Power Consumption	40 Watts Max (without PoE load)
Power Inputs	1
Input Voltage	Internal power adapter with AC100 – 240V 50-60Hz input
Connector	AC: 3 Pin AC Socket
Protection	Overload Current Protection, Reverse Polarity Protection

Additional Features

Part No.	SIL 54648MP
Software Features	
Management Interface	CLI, WEB, SNMPv1/v2/v3, Telnet server for management, EEE, LLDP, DHCP Server/Client(IPv4/IPv6), Cloud/MQTT
Management	ARP, Flow Control, DDM, DHCP Server/Client, IPv4/IPv6, LLDP, LLDP-MED, UDLD, Port Mirror, RMON, SNMPv1/v2c/v3, Syslog, Telnet
File Management	Firmware Upgrade/Backup, Dual Images, Configuration Download/Backup, Multiple Configuration, TFTP(RFC783), HTTP, UART
Multicast Support	802.1Q, GMRP, GVRP, IGMP Snooping v1/v2/v3
Redundant Network	Link Aggregation, STP/RSTP/MSTP/ERPSv2
VLAN	Support IEEE 802.1Q 4K VLAN, QinQ, Double VLAN
Time Management	SNTP
QOS	Flow-based redirection 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 Type	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.
Diagnostic Maintenance	Support port mirroring, Syslog, Ping
POE Management	Total power limit of PoE power supply PoE output power allocation, on/off with at/af PoE output priority configuration PoE working status Scheduling of PoE operation
Security	Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0 Support DHCP Snooping, Option 82, 802.1X security access, Support user hierarchical management, ACL access control list, Support DDOS, port-based MAC filtering / binding, MAC black holes, IP source protection, Port isolation, ARP message speed limit
Standards	
Surge Protection	Lightning protection: ±6kV DC, ±6kV RJ45
Certification	CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class , RoHS
Warranty	3 years
Package Contents	
Device	1x Ethernet Switch
Cable	1xDB9 female to RJ45 10-pin AC Power Cable
Installation Kit	2x Rack-Mount Kits
Documentation	1 x Quick Start guide

Part Numbers & Accessories

Series 5 Commercial 1G/10G Switches

Part Code	Description
SIL 534C24MP	24GE + 4 Combo (TP + SFP) POE+
Commercial 10G	
SIL 54424MP	24 x 10/100/1000M RJ45 PoE+ ports + 4 x 10G SFP+ ports
SIL 516S8C4M	16 x Gigabit SFP ports, 8 x Gigabit Combo (SFP/RJ45) + 4 x 10G SFP+ ports

1G/10G Fibre Transmission

Part Code	Description
SIL-SFP0-01-25-X850-0-5D	1G Multimode 850nm SFP, 550m
SIL-SFP0-01-25-X131-10XD	1G Singlemode 1310nm SFP, 10km
SIL-SFP0-01-25-X131-40XD	1G Singlemode 1310nm SFP, 40km
SIL-SFP0-01-25-X155-80XD	1G Singlemode 1550nm SFP, 80km
SIL-SFPX-08-10-X850-0-3D	10G Multimode 850nm SFP+, 300m
SIL-SFPX-08-10-X131-02XD	10G Multimode 1310nm SFP+, 2km
SIL-SFPX-08-10-X131-10XD	10G Singlemode 1310nm SFP+, 10km
1Gbps BiDi	
SIL-SFP0-01-25-B131-10XD	1G SM 1310nm TX FP 10km with DDM, 1550nm RX
SIL-SFP0-01-25-B155-10XD	1G SM 1550nm TX FP 10km with DDM, 1310nm RX
SIL-SFP0-01-25-B139-10XD	1G SM 1310nm TX FP 10km with DDM, 1490nm RX
SIL-SFP0-01-25-B149-10XD	1G SM 1490nm TX FP 10km with DDM, 1310nm RX
SIL-SFP0-01-25-B131-40XD	1G SM 1310nm TX DFB 40km with DDM, 1550nm RX
SIL-SFP0-01-25-B155-40XD	1G SM 1550nm TX DFB 40km with DDM, 1310nm RX
10Gbps BiDi	
SIL-SFPX-08-10-B127-40XD	10G SM 1270nm TX FP 10km with DDM, 1330nm RX
SIL-SFPX-08-10-B133-40XD	10G SM 1330nm TX FP 10km with DDM, 1270nm RX
SFP to Ethernet	
SIL-SFP0-01-25-XXXT-0-1	1G RJ45 Copper SFP, 100m
SIL-SFPX-08-10-XXXT-0-03	10G RJ45 Copper SFP, 30m

* Series 5 Commercial Switches are mains powered by IEC connector