SILVERNET
WIRELESS-NETWORK-SOLUTIONS

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Series 5 Commercial Gigabit PoE+ AI Switch Range

SIL 53208P-AI
SIL 53216P-AI
SIL 53224P-AI



Commercial Gigabit PoE+ Unmanaged Switch with AI

OVERVIEW

The SilverNet Ai Switch Range is a high-performance, commercial-grade Gigabit PoE+ switch designed to provide stable and reliable Ethernet transmission for modern network deployments.

Equipped with 8, 16 or 24 × 10/100/1000Base-T PoE+ ports and 2 × Gigabit SFP uplink ports, the Ai Switch Range delivers flexible connectivity for IP cameras, wireless access points, VoIP phones, and intelligent building systems.

This model features a fanless, noiseless design, low power consumption, and a durable IP30 metal housing, ensuring long-term reliability in commercial environments.

The Ai Switch Range supports the IEEE802.3af/at PoE standard, providing up to 30W per port with a total PoE budget of 350W. AI-assisted DIP-switch functions provide enhanced automation:

- AI VLAN – isolates PoE ports from each other
- AI Extend – extends PoE transmission up to 250m (10 Mbps)
- AI QoS – prioritises video and VoIP traffic
- AI PoE – automatically resets unresponsive PDs

With robust PoE output, stable Gigabit performance, and intelligent automation, the Ai Switch Range is ideal for hotels, campuses, factories, dormitories, and small-to-medium enterprises.

Features

- 8, 16, or 24 × 10/100/1000Base-T PoE+ ports
- 2 × Gigabit SFP uplink ports56Gbps bandwidth
- 52 Gbps switching backplane bandwidth
- IEEE802.3af/at PoE compliant
- Auto negotiation speed, half/full duplex
- Store and forward
- Max packet size: 10K bytes
- MAC address size: 8K
- AI VLAN, AI Extend, AI QoS, AI PoE
- Energy Efficient Ethernet
- Operating temperature: 0 °C to +50 °C
- 4 kV surge protection
- Fanless, passive cooling (0 dBA noise)
- Metal IP30 housing
- Rack-mountable

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Technical Specifications

Part No.	SIL 53224P-AI	SIL 53216P-AI	SIL 53208P-AI
Ethernet Interface			
Ports	24×10/100/1000M Base-TX RJ45 2 x Gigabit SFP	16×10/100/1000M Base-TX RJ45 2 x Gigabit SFP	8×10/100/1000M Base-TX RJ45 2 x Gigabit SFP
Port Mode (Tx)	Auto Negotiation Full/Half Duplex Mode Auto MDI/MDI-X Connection		
SFP Port Transmission	1G multimode/single-mode modules		
RJ45 Port Transmission	Up to 100 m (CAT5/CAT5e)		
Standards	IEEE 802.3 10Base-T, 802.3u 100Base-TX, 802.3ab 1000Base-T, 802.3z 1000Base-X, 802.3x flow control, 802.1p CoS, 802.3az EEE		
Packet Buffer Size	4Mbits		
Maximum Packet Length	Up to 10K		
MAC Address Table	8K		
Transmission Mode	Store and Forward (full/half duplex mode)		
Exchange Property	Delay time: < 7μs Backplane bandwidth: 52Gbps		
Physical Characteristics			
Housing	Metal		
IP Rating	IP30		
Dimensions	440mmx300mmx45mm		
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	100,819@Telcordia SR-332 GB 25°C		
Cooling	Passive Cooling, Fanless Design		
Noise Level	0 dBA		
Power Characteristics			
PoE Ports	Port 1-24	Port 1-16	Port 1-8
Power Supply Pin	Default: 1/2(+), 3/6(-)		
Max Power Per Port	IEEE802.3 af/at 30W		
Total PWR	350W		
Power Consumption	< 18 W (no 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		

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Additional Features

Part No.	SIL 53224P-AI	SIL 53216P-AI	SIL 53208P-AI
AI Features			
DIP #1 - AI VLAN	Isolates PoE ports; uplink-only communication		
DIP #2 - AI Extend	Extends PoE up to 250 m at 10 Mbps		
DIP #3 - AI QoS	Prioritises video/VoIP traffic		
DIP #4 - AI PoE	Auto-detects inactive PDs and resets power		
Standards			
Lightning Protection	Lightning protection: 4kV 8/20us		
Certification	CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class , RoHS		
Warranty	3 years, lifetime technical support		
Package Contents			
Device	1x Ethernet Switch		
Cable	1x AC Power Cable		
Installation Kit	2x Rack-Mount Kits		Desktop
Documentation	1 x Quick Start guide		

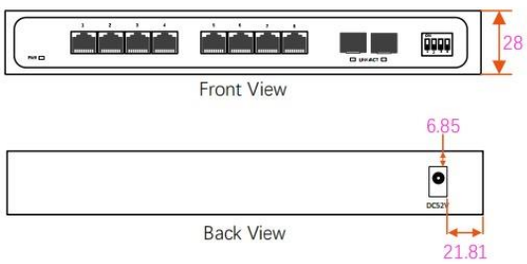
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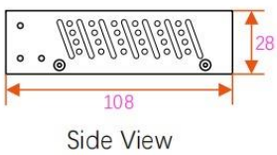
Dimensions

SIL 53208P-AI

Dimensions **Unit: mm**







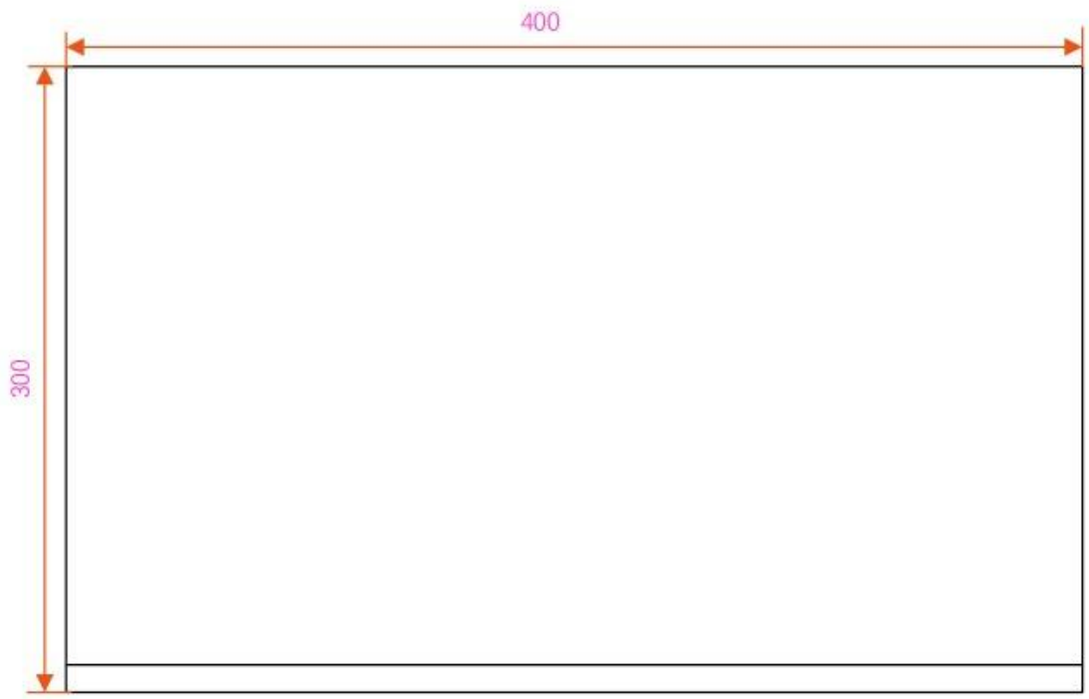
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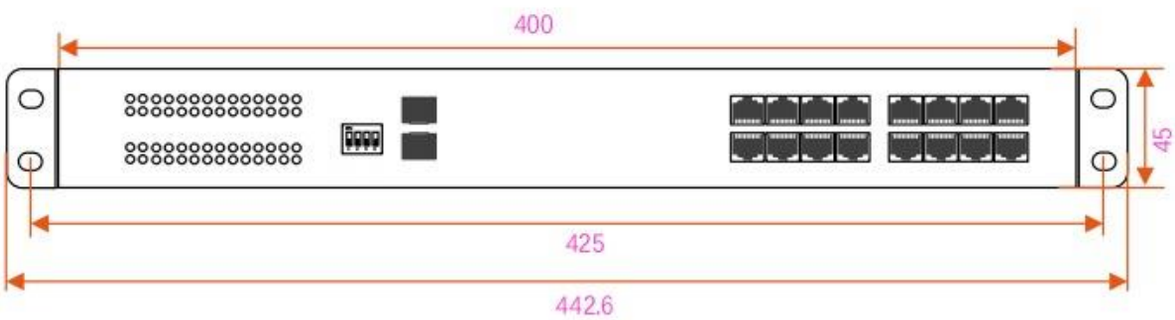
Dimensions

SIL 53216P-AI

Dimensions **Unit: mm**



Top View



Front View

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Dimensions

SIL 53224P-AI



Top View



Front View

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Part Numbers & Accessories

Series 5 Commercial 1G/10G Switches

Part Code	Description
SIL 53005P	5GE, PoE+ Unmanaged
SIL 53224P-AI	24GE + 2 x 1G SFP, PoE+ Unmanaged
SIL 53216P-AI	16GE + 2 x 1G SFP, PoE+ Unmanaged
SIL 53208P-AI	8GE + 2 x 1G SFP, PoE+ Unmanaged
SIL 53208MP / 53208MP-BT	8GE + 2 x 1G SFP, PoE+ Managed
SIL 54424MP	24GE + 4 x 10G SFP+, PoE+ Managed
SIL 534S8C4M	16SFP + 8 x 1G SFP/GE Combo, 4 x 10G SFP+, PoE+
SIL 534C24MP	24GE + 4 x 1G SFP/GE Combo, PoE+ Managed
SIL 54648MP	48GE + 6 x 10G SFP+, PoE+ Managed

1G/10G Fibre Transmission

Part Code	Description
SIL-01-25-X850-0-5D	1G Multimode 850nm SFP, DDM, Duplex LC Connector, 550m
SIL-01-25-X131-10XD	1G Singlemode 1310nm SFP, DDM, Duplex LC Connector, 10km
SIL-01-25-X131-40XD	1G Singlemode 1310nm SFP, DDM, Duplex LC Connector, 40km
SIL-01-25-X155-80XD	1G Singlemode 1550nm SFP, DDM, Duplex LC Connector, 80km
SIL-08-10-X850-0-3D	10G Multimode 850nm SFP+, DDM, Duplex LC Connector,300m
SIL-08-10-X131-02XD	10G Multimode 1310nm SFP+, DDM, Duplex LC Connector, 220m
SIL-08-10-X131-10XD	10G Singlemode 1310nm SFP+, DDM, Duplex LC Connector, 10km
SIL-08-10-X155-80XD	10G Singlemode 1550nm SFP+, DDM, Duplex LC Connector, 80km
BiDi	
SIL-01-25-B131-10XD	1G SM SFP 1310nm TX FP 10km with DDM, LC, 1550nm RX
SIL-01-25-B155-10XD	1G SM SFP 1550nm TX FP 10km with DDM, LC, 1310nm RX
SIL-01-25-B139-10XD	1G SM SFP 1310nm TX FP 10km with DDM, LC, 1490nm RX
SIL-01-25-B149-10XD	1G SM SFP 1490nm TX FP 10km with DDM, LC, 1310nm RX
SIL-08-10-B127-10XD	10G SM SFP+ 1270nm TX FP 10km with DDM, LC, 1330nm RX
SIL-08-10-B133-10XD	10G SM SFP+ 1330nm TX FP 10km with DDM, LC, 1270nm RX
SIL-08-10-B127-40XD	10G SM SFP+ 1270nm TX FP 40km with DDM, LC, 1330nm RX
SIL-08-10-B133-40XD	10G SM SFP+ 1330nm TX FP 40km with DDM, LC, 1270nm RX
SFP to Ethernet	
SIL-01-25-XXXT-0-1	1G RJ45 Copper SFP, 100m
SIL-08-10-XXXT-0-03	10G RJ45 Copper SFP, 30m

* Series 5 Commercial Switches are mains powered by IEC connector

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