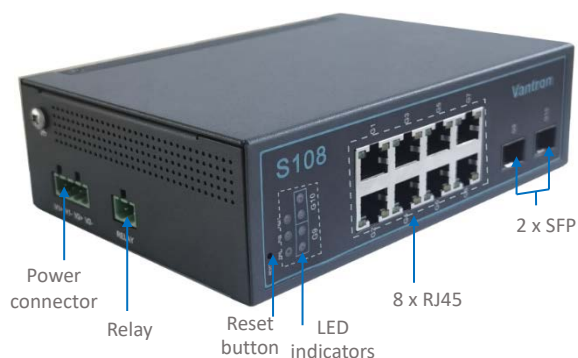# S108 Series Unmanaged Industrial Switches

Product Brief

As part of Vantron's overall solution for industrial automation, Vantron S108 series is a collection of four unmanaged industrial switches that feature 8 Gigabit Ethernet ports and 2 optional SFP fiber ports to demonstrate excellent data transfer performance.

Vantron S108 series is a Plug and Play solution that reduces users' educational inputs and its compact size helps to save the user space. This series supports 12V~48V wide input voltage and -20℃ ~ +70℃ industrial-grade extended temperature range, and implements a fanless heat sink for device heat dissipation. A DIN rail bracket is attached to the back of the device enclosure, and customers may install the switch to a DIN rail at the desired location.

Switches are usually used in harsh environments that require stable operation and involve data interaction between a range of devices. Vantron S108 series is particularly designed for rail transit, smart city, intelligent mining, etc.

Exterior and Features

Power connector

Relay

Reset button

LED indicators

8 x RJ45

2 x SFP

(S108-FR for illustration)

S108 Series
Plug and play
Low power consumption
Adaptive full/half duplex Ethernet jacks
Long service time
Stringent test proof
Efficient fanless heat dissipation
Wide input voltage & temperature range
Compact size, easy to deploy

S108 Series Unmanaged Industrial Switches Datasheet

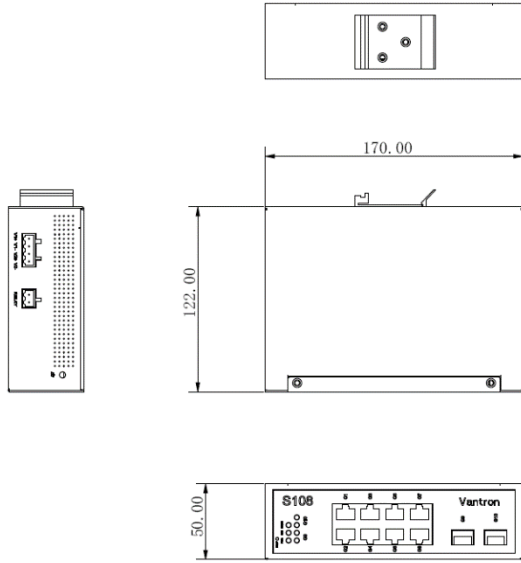| Model Name		S108-B	S108-F	S108-R	S108-FR
Ethernet	Interface	NA	8 x RJ45, 10/100/1000M Base-T (X)	NA	
			1 x SFP, 1000M (G9)		1 x SFP, 1000M (G9)
			1 x SFP, 1000/2500M (G10)		1 x SFP, 1000/2500M (G10)
	LED Indicator	2 x LED indicator on each RJ45 port (Green: Link/Activity; Yellow: ON—1000M, OFF—10/100M)			
		2 x LED indicator for each SFP port (NA for S108-B/S108-R)			
	Standard	IEEE802.3			
		IEEE802.3u			
		IEEE802.3x			
		IEEE802.3z			
Data Transfer	Forwarding mode	Store-and-forward			
	MAC address table	4K			
	Switching capability	16Gbps			
	Packet forwarding rate	11.9Mpp			
	Packet buffer	2.5Mb			
System Control	Alarm relay	NA		1 x 2-pin x 5.0mm (Current load: 1A @24VDC)	
	LED indicator	1 x Power indicator			
		1 x Status indicator			
		1 x Error indicator			
Mechanical	Dimensions	170mm x 122mm x 50mm			
	Installation	DIN-rail mounting			
	MTBF	≥30,000 H			
	IP rating	IP40			
Power	Input	12V~48V DC/16~30V AC, 1 x 4-pin x 5.0mm terminal block (Dual redundant power supply, over-current protection, reverse polarity protection)			
	Consumption	<3W (Idle); < 7.5W (Full load)			
Environment Condition	Temperature	Operating: -20℃ ~ +70℃			
		Storage: -40℃ ~ +85℃			
	Humidity	Operating: RH 0-90% (Non-condensing)			
	EMC level	> EMC Level 3			
	Certification	CE, FCC, UL			
Test Standard	Industrial Standard	EMI			
		FCC CFR47 Part 15, EN55032/CISPR22, Class A			
		EMS			
		IEC61000-4-2 (ESD): ±6kV (contact), ±8kV (air)			
		IEC61000-4-3 (RS): 10V/m (80MHz ~ 2GHz)			
		IEC61000-4-4 (EFT): Power port: ±2kV, Data port: ±1kV			
		IEC61000-4-5 (Surge): Power port: ±1kV/DM, ±2kV/CM, Data port: ±1kV/DM, ±2kV/CM			
		IEC61000-4-6 (CS): 10V (150kHz ~ 80MHz) (Mechanical)			
		IEC60068-2-6 (Vibration)			
		IEC60068-2-27 (Shock)			
		IEC60068-2-32 (Free fall)			

Product Outlines

Ordering Information

Ordering No.	RJ45	SFP	Alarm relay	DIN rail mounting bracket
S108-B	8	-	-	Yes
S108-F	8	2	-	Yes
S108-R	8	-	Yes	Yes
S108-FR	8	2	Yes	Yes

Packing list	
S108 industrial switch	1
DIN rail mounting bracket	1

Optional accessories	
12V Power adapter & power cord	1 kit
DC Power connector	1

Since its establishment in 2002 by two Silicon Valley entrepreneurs, Vantron Technology has been at the forefront of the connected IoT devices and IoT platform solutions. Today, Vantron boasts a global customer base that includes several Fortune 500 companies. Its product lines cover edge intelligent hardware, IoT communication devices, industrial displays and BlueSphere cloud device management platform.

Vantron offers IoT communication devices that enable multi-protocol connections for industrial equipment and local data processing through edge computing. With abundant wired and wireless connectivity options, remote operations and maintenance have become easier than ever. Such devices can be deployed across different sectors such as smart retail, medical and warehousing. Moreover, Vantron's IoT solutions are designed to facilitate enterprises' digital transformation, streamline operations, enhance productivity, etc.