

S2024 Industrial Switch



Product Brief

S2024 industrial switch is a high-performance network device specifically designed for harsh industrial environments. Powered by the RISC-V architecture-based CTC2118 processor, it delivers robust data processing capabilities while achieving excellent power consumption control. The switch provides 24 10/100/1000M Ethernet ports and 4 Gigabit SFP optical ports, offering flexible and diversified networking methods. The device is integrated with 2-channel relay alarm outputs, all-round LED status indicators and a RTC, facilitating real-time system monitoring, event logging and automated control.

This switch supports a wide-range DC input of 12–48V, making it compatible with various industrial environments. Developed based on the open Linux operating system, it features excellent software compatibility and ample room for function expansion. With an industrial-grade design and a wide operating temperature range ($-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$), the entire unit boasts high and low temperature tolerance. It can operate stably for long periods in harsh environments, making it an ideal choice for building reliable industrial communication networks.

Exterior and Features



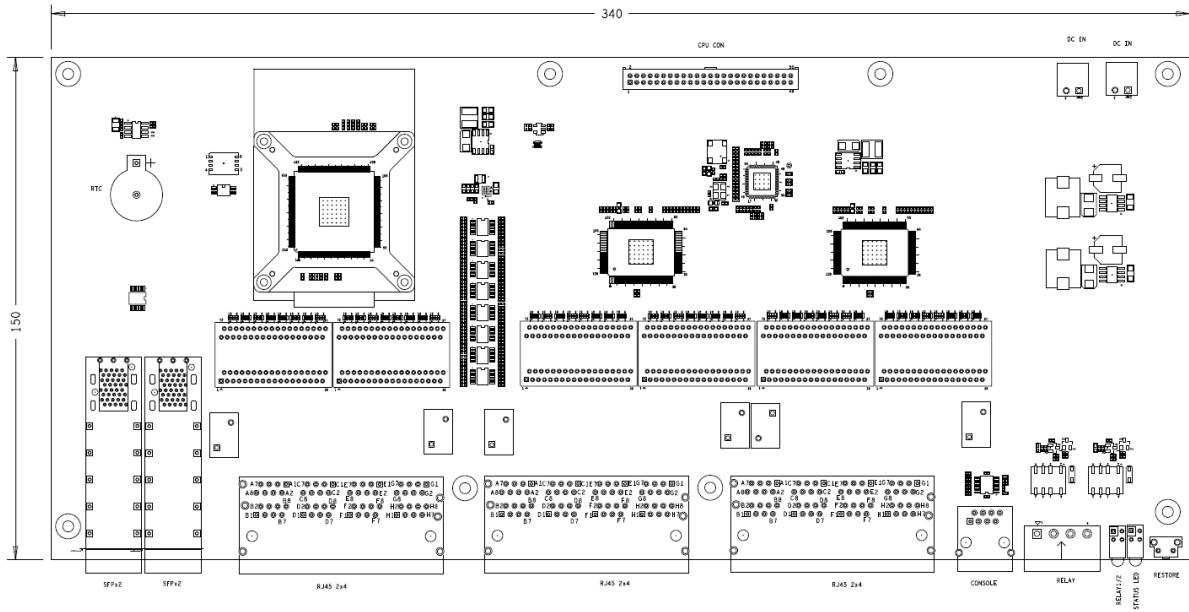
S2024

-  CTC2118 RISC-V architecture CPU
-  24 × RJ45 & 4 × SPF, 10/100/1000Base-Tx
-  Multiple I/O interfaces for flexible connection
-  Linux operating system for easy configuration
-  12~48V DC, wide range of operating voltage
-  $-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$, wide range of operating temperature

S2024 Industrial Switch Datasheet

S2024		
System	CPU	CTC2118, RISC-V architecture
	ROM	64KB
	SRAM	192KB
	EEPROM	8KB
	Flash	4MB
Communication	Ethernet	8 × RJ45, 10/100/1000Base-Tx
		16 × RJ45 (2 × CTC21108CR2), 10/100/1000Base-Tx
		4 × SPF, 10/100/1000Base-x
System Control	Relay	2 × Alarm Relay interface (30V/2A DC, 125V/0.5A AC)
	RTC	Supported
	Button	1 × Restore Button (Restore system upon long press)
	LED	1 × Power indicator (PWR)
		1 × System status indicator (SYS)
		2 × Alarm relay indicator (Alarm1, Alarm2)
		24 × Network status indicator
		Yellow (ON): 10/100Mbps
		Green (ON): 1000Mbps
Software	OS	Linux
	Terminal	2 × Power terminal, 2-pin, 5.08mm
Mechanical	Dimensions	482.60mm × 300.00mm × 44.00mm
	Installation	Cabinet mounting
	Cooling mode	Fanless, heat sink
Environment condition	Temperature	Operating: -40°C ~ +75°C
		Storage: -40°C ~ +85°C
	Humidity	Operating: 5%~95%RH (Non-condensing)
	Certification	CE, FCC, UL

Product Outlines



Ordering Information

Ordering No.	RJ45	SFP	Alarm Relay	OS	LED
S2024	24	4	2	Linux	Yes

Packing list	
S2024 Industrial Switch	1
Power Terminal Block	2

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 Fortune Global 500 companies. Its product lines cover intelligent edge hardware, IoT communication devices, intelligent displays, and BlueSphere cloud platforms.

Vantron IoT communication devices support multi-protocol connection of industrial equipment, edge computing of local data. Abundant wired and wireless connectivity make remote operations and maintenances possible. From electricity and transportation to smart retail, medical and warehousing, Vantron IoT communication device can be deployed anywhere in any business section. Its IoT solutions have helped many customers significantly improve manufacturing efficiency and productivity.