VT-M2M-S2024 Industrial Switch

Product Brief

VT-M2M-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℃ ~ +75℃), 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

Screw Hole
Restore Button
4 × System LED
2 × Relay
24 × Network LED
24 × RJ45
4 × SPF

Power Terminal
Power Terminal

VT-M2M-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℃~+75℃, wide range of operating temperature

VT-M2M-S2024 Industrial Switch Datasheet

VT-M2M-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	4 × System status indicator (PWR, SYS, Alarm1, Alarm2)
		24 × Network status indicator (Yellow (ON): 10/100Mbps, Green (ON): 1000Mbps)
		4 × SPF indicator (Left (ON): 100M optical module connected, right (ON): 1G optical module connected)
Software	OS	Linux
Power	Input	12~48V DC, recommended: 12V=2A
	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℃ ~ +75℃ / Storage: -40℃ ~ +85℃
	Humidity	Operating: 5%~95%RH (Non-condensing)
	Certification	RoHS

Product Outlines
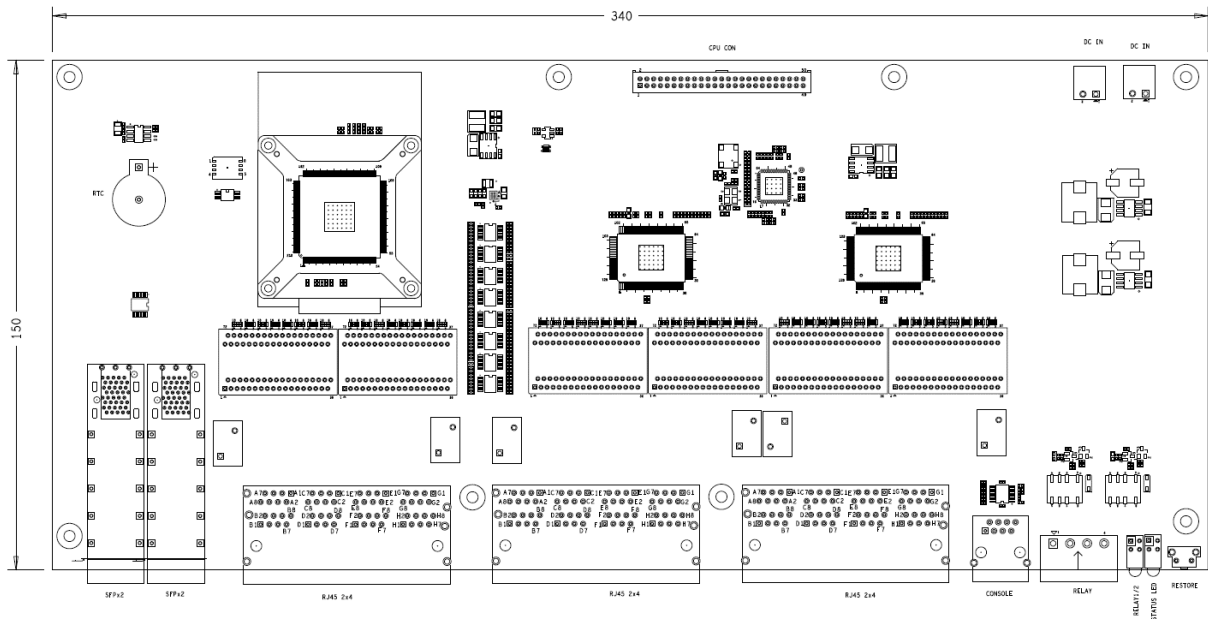
Block Diagram
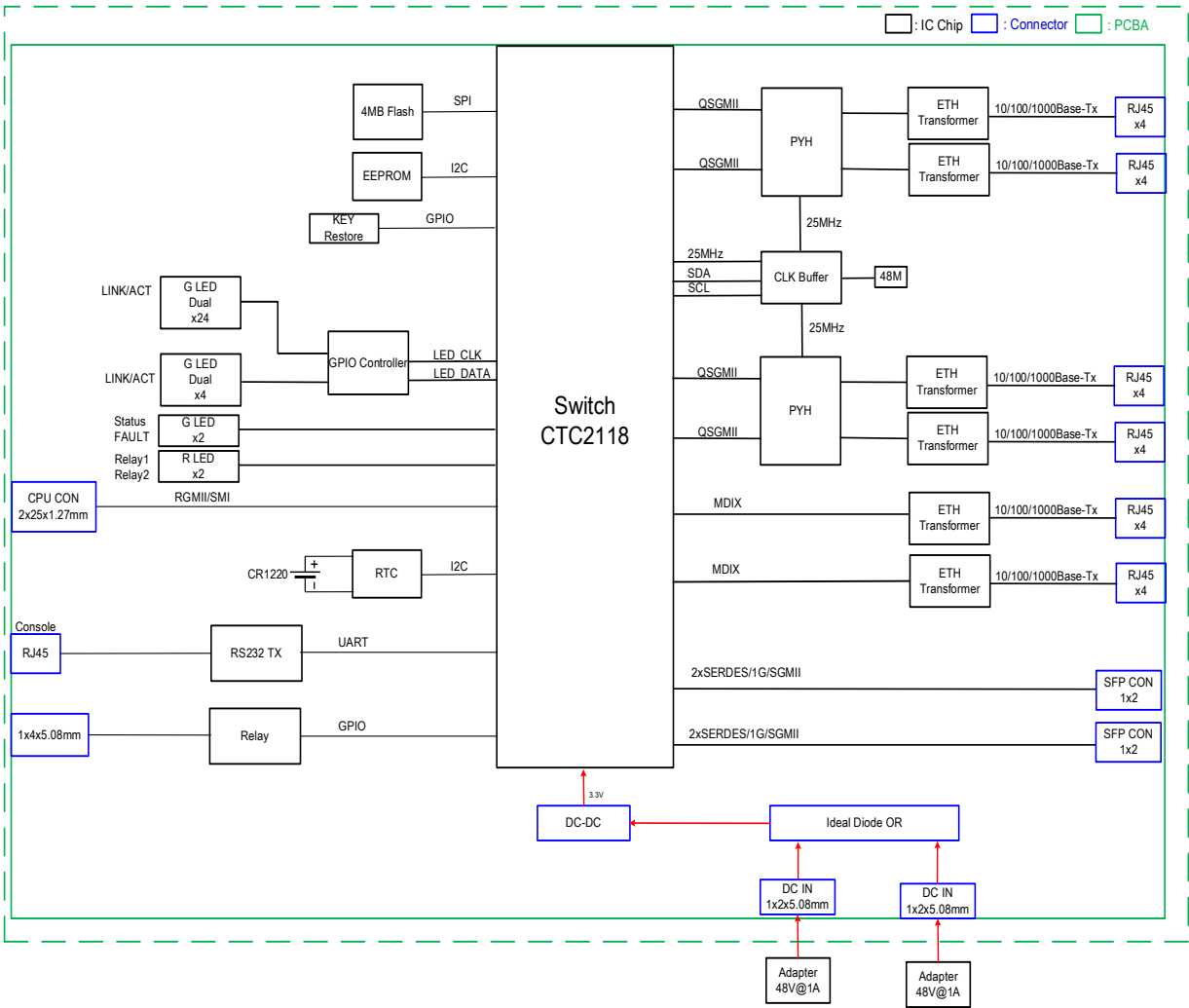
Ordering Information

Ordering No.	RJ45	SFP	Alarm Relay	OS	LED
VT-M2M-S2024	24	4	2	Linux	Yes

Packing list	
VT-M2M-S2024 Industrial Switch	1
Power Terminal Block	2