

RS-408/RSM-408 Series



8-Port Real-time Redundant Ring Switch

Highlight Information ▶▶▶

RS-408/RSM-408 Series



















For RSM-408 Series





For RS-408 Series



RSM-408 Series



RS-408 Series



Introduction

The RS-408/RSM-408 series is an 8-Port Industrial Ethernet (10/100 Base-TX) Real-Time Redundant Ring Switch. RS-408/RSM-408 supports 10/100M auto negotiation feature and auto MDI/MDI-X function. It can automatically switch the transmission speed (10 Mbps or 100 Mbps) for corresponding connections.

Built-in ICP DAS Cyber-Ring technique that enable multiple switches to be placed into a redundant ring. It detects and recovers from a copper link failure within approximately 300 ms - for the majority of applications a seamless process.

Features

- Automatic MDI/MDI-X crossover for plug-and-play
- Each port supports both 10/100 Mbps speed auto negotiation
- Store-and-forward architecture
- Full duplex IEEE 802.3x and half duplex backpressure
- 3.2 Gbps high performance memory bandwidth
- Frame buffer memory: 1 Mbit
- Integrated look-up engine with dedicated 2048 unicast MAC addresses
- Redundant Power Inputs +10 V_{DC} ~ +30 V_{DC} Power failure alarm by relay output
- Supports operating temperatures from -40 °C ~ +75 °C
- DIN-Rail

Specifications

Models	RS-408	RSM-408	
Technology			
Standards	IEEE 802.3, 802.3u and 802.3x		
Processing Type	Store & forward, wire speed switching		
MAC Addresses	2048		
Memory Bandwidth	3.2 Gbps		
Frame Buffer Memory	1 Mbit		
Flow Control	IEEE 802.3x flow control, back press	IEEE 802.3x flow control, back pressure flow control	
Interface			
RJ-45 Ports	10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection		
LED Indicators	Power, 10/100M, Link/Act, Master		
Ethernet Isolation	1500 V _{rms} 1 minute		
COM1	RS-232 (TXD, RXD and GND); Non-isolation		
COM2	RS-485 (D2+, D2-; self-tuner ASIC inside); Non-isolation		
Frame Ground for EMS Protection	Yes		
Power			
Input Voltage Range	+10 V _{DC} ~ +30 V _{DC} (Isolation redundant input)		
Power Consumption	0.3 A @ 24 V _{DC} , +/- 5% arrowed with 100M Full duplex		
Protection	Power reverse polarity protection		
Frame Ground for EMS Protection	Yes		
Connection	7-Pin Removable Terminal Block		
Mechanical			
Casing	Plastic (Flammability UL 94V-0)	Metal (IP30 Protection)	
Dimensions (W x L x H)	64 mm x 98 mm x 118 mm	73 mm x 102 mm x 132 mm	
Installation	DIN-Rail	DIN-Rail or Wall Mounting	
Environmental			
Operating Temperature	-40 °C ~ +75 °C		
Storage Temperature	-40 °C ~ +85 °C		
Ambient Relative Humidity	10% ~ 90% RH, non-condensing		
Include Cable	clude Cable		
CA-090510 x 1			



LED Functions

Standard RJ-45 female connectors are provided. A standard RJ-45 plug cable is all that is necessary to connect your device to the unit since switch that supports auto crossover.

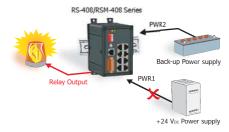
RS/RSM-408 Series LED Indicator Functions

LED	Color	Description
Master	Red On	The switch is master of ring network
Mastel	Red Off	The switch is slave of ring network
PWR1	Orange On	Power input 1 is online
PVVKI		Power input 1 is offline
PWR2		Power input 2 is online
PVVKZ	Green Off	Power input 2 is offline
		Link to 100 Mbps
	Orange Off	Link to 10 Mbps
Port	Orange Blink	Backup Port
	Green Blink	Data Transmission

Redundant Power Inputs

Both power inputs can be connected simultaneously to live DC power sources.

If one power source fails, the other live source acts as a backup, and automatically supplies all of RS-408/RSM-408 series power needs.



Serial Port

■ 10-Pin RJ-45 Serial Port Pin-Out ■

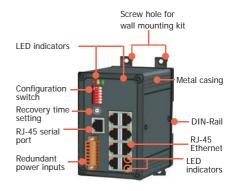


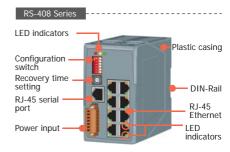
Pin#	Signal Name	Function
1	NC	No Connection
2	D+	RS-485 D+
3	D-	RS-485 D-
4	GND	RS-232 Ground
5	TXD	RS-232 TXD
6	RXD	RS-232 RXD
7	NC	No Connection
8	NC	No Connection
9	NC	No Connection
10	NC	No Connection

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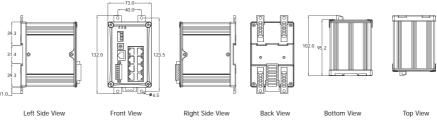
Appearance

RSM-408 Series

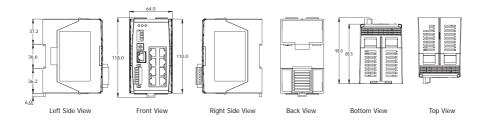




• Dimensions (Unit: mm)



RS-408 Series



Ordering Information

RS-408 CR	8-Port Redundant Ring Switch with Isolation Power Input +10 Vpc ~ +30 Vpc (RoHS)
RSM-408 CR	8-Port Redundant Ring Switch with Isolation Power Input +10 V _{DC} ~ +30 V _{DC} , metal casing (RoHS)
RS-408A CR	8-Port Redundant Ring Switch with Non-isolation Power Input +12 Vpc ~ +48 Vpc (RoHS)
RSM-408A CR	8-Port Redundant Ring Switch with Non-isolation Power Input +12 $V_{DC} \sim +48 \ V_{DC}$, metal casing (RoHS)

Accessories

CA-090510	9-Pin Female D-Sub & RJ-45 Cable, 1M Cable	
MDR-20-24	24V/1A, 24 W Power Supply with DIN-Rail Mounting	
KWM020-1824F	F 24V/0.75A, 18 W Power Supply	
DIN-KA52F	24V/1.04A, 25 W Power Supply with DIN-Rail Mounting	