

RS Series Quick Start

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What's in the box?

In addition to this guide, the package includes the following items:



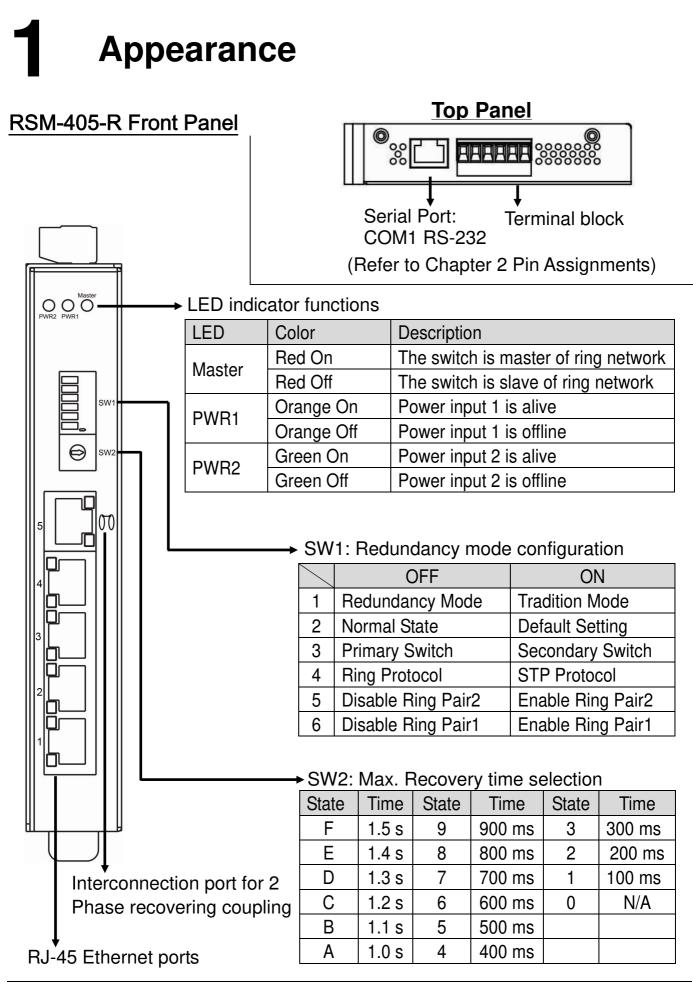


Quick Start x1(This Document)

Related Information

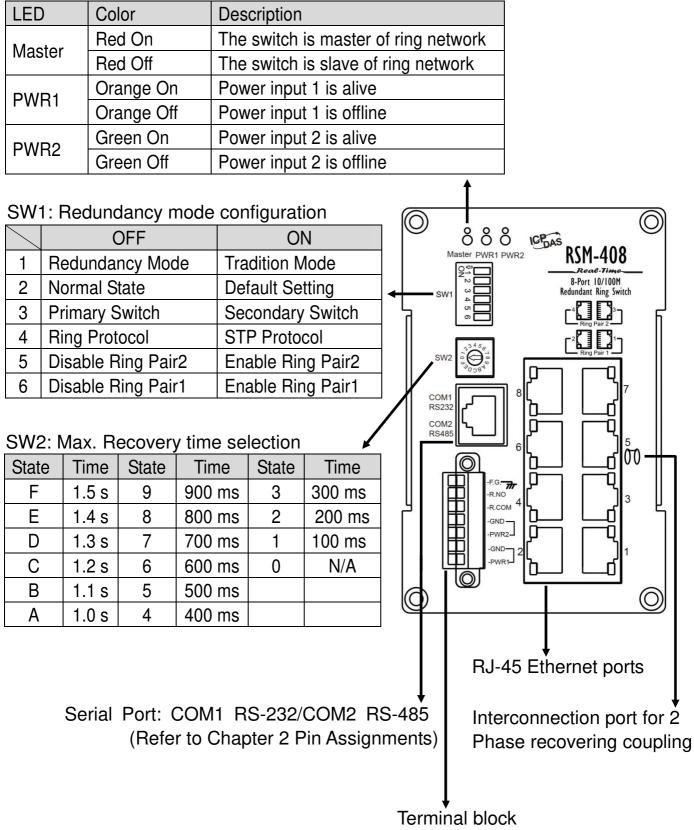
For detailed information about the hardware and software of RS series, refer to the RS Series User Manual.

- Documentation & Software: http://ftp.icpdas.com/pub/cd/ethernetswitch/napdos/rs-405/
- RS Series Product Page: http://www.icpdas.com/root/product/solutions/industrial_ethernet_switch/switch_selection.html



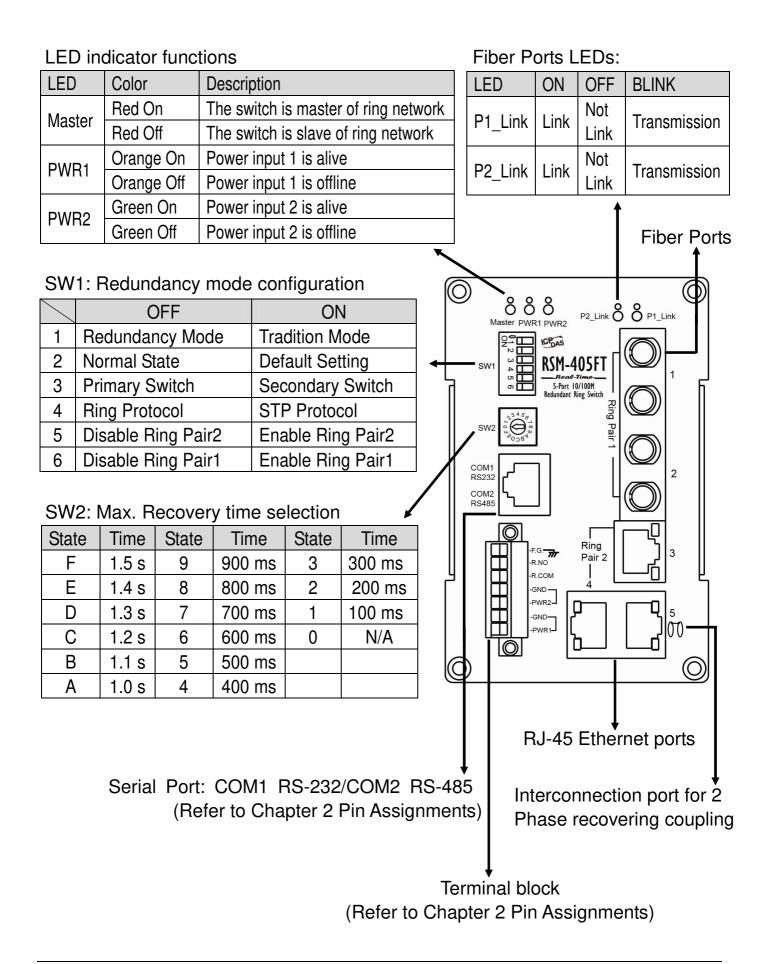
RS-405/RSM-405/RS-408/RSM-408 Series Front Panel

LED indicator functions



(Refer to Chapter 2 Pin Assignments)

RS-405F/RSM-405F Series Front Panel



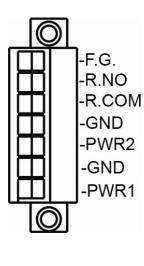
2 Pin Assignments

10-pin RJ-45 Serial Port

10-pin	Signal		CA-090510 Mapping	
RJ-45		Signal		DB-9
01	-	-	-	-
02	D+	COM2 RS-485, Data+	Pin 1	Pin 6
03	D-	COM2 RS-485, Data-	Pin 2	Pin 7
04	GND	COM1 RS-232, Ground	Pin 3	Pin 5
05	TxD	COM1 RS-232, Transmit Data	Pin 4	Pin 2
06	RxD	COM1 RS-232, Receive Data	Pin 5	Pin 3
07	-	-	-	-
08	-	-	-	-
09	-	-	-	
10	-	-	_	_

NOTE: RSM-405-R not supports COM2 (RS-485).

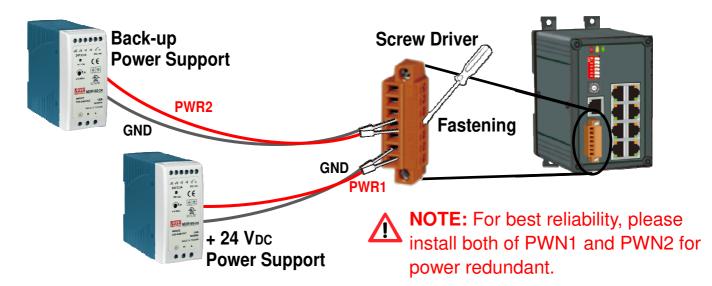
Terminal Block



	Pin	Description	
1	F.G.	Frame Ground	
2	R.NO	Relay	
3	R.COM	Relay	
4	GND	Power 2 Grounding	
5	PWR2	DC Power Input 2	
		RS(M)-405, RS(M)-408, RS(M)-405F Series:	
		Valid Power Voltage Range: +10 Vpc ~ +30 Vpc	
		> RS-405-R, RS(M)-405A, RS-(M)-405AF Series:	
		Valid Power Voltage Range: +12 Vpc ~ +48 Vpc	
6	GND	Power 1 Grounding	
7	PWR1	DC Power Input 1	
		RS(M)-405, RS(M)-408, RS(M)-405F Series:	
		Valid Power Voltage Range: +10 Vpc ~ +30 Vpc	
		 RS-405-R, RS(M)-405A, RS-(M)-405AF Series: Valid Power Voltage Range: +12 Vpc ~ +48 Vpc 	

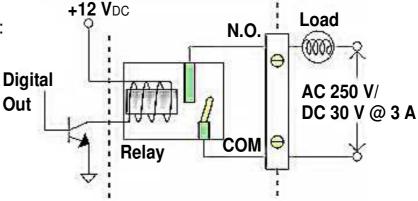
3 Connecting Input Power

Insert the wire of your DC supply or Battery supply into the PWN1 and/or PWN2 contacts of the terminal block connector, and fastening the terminal screws to prevent the wires from coming loose.

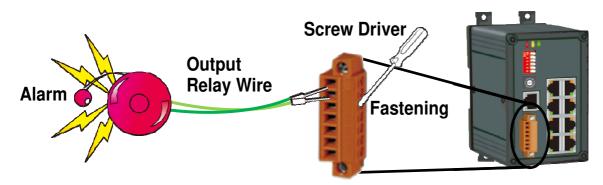


4 Connecting Output Relay

The diagram of output relay:



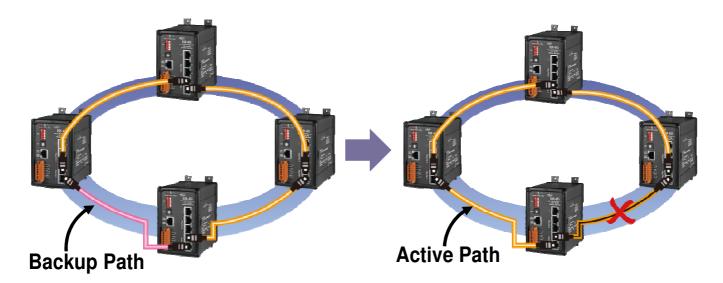
Insert the relayed device such as a light bulb or a buzzer pair of wire, and fastening the terminal screws to prevent the wires from coming loose.



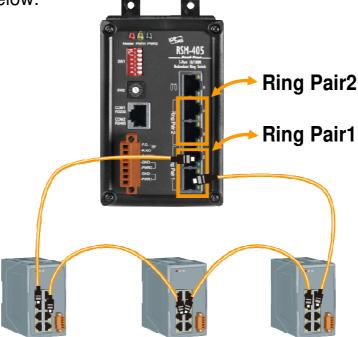
5 Single Ring Topology

A ring topology ensures the network having one more chance to keep connection alive when any connection between 2 switches (nodes) has been broken inside the ring.

When we have formed a ring network, the focal point (master) will choose any one and only one path as **Redundant Path**. It is actually inactive when the ring network works properly. At the moment of any connection failure, the focal point will activate the **Redundant Path** and fire alarm to output relay.



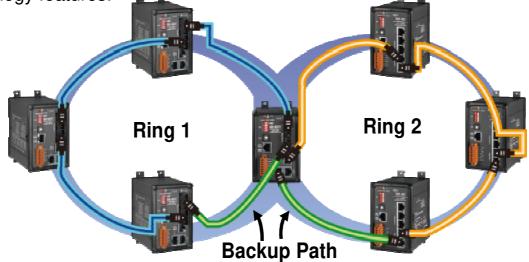
RS Series come with 2 ring pair by default. A ring pair can form a ring with other network devices as below:



6 Dual Ring Coupling Topology

As a ring network is a small group of switches by geography, functionalities, or subsystem, 2 or more rings could be coupled together to form a whole picture of industrial network for an integrated system.

Single coupling point uses a switch to bridge 2 rings. Each ring still keeps original ring topology features.



Double Ring Coupling

Double Ring Coupling is the enhanced version of Ring Coupling topology. It improves the reliability of Ring Coupling topology. In Double Ring Coupling topology, there are two coupling points providing redundant coupling path of two rings.

