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SRM1 Micro Controller

CAPTURE THE POWER AND FLEXIBILITY
OF HIGH-SPEED DISTRIBUTED I/O



OMRON®

SRM1 MICRO NETWORK CONTROLLER

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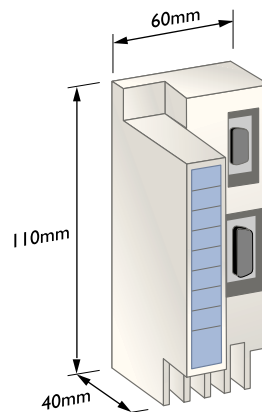
owerful, Expandable and Innovative Cont

Take control of your most challenging applications with a powerful and easily customizable control solution. Omron has designed a unique control solution that gives you access to several different I/O options, requires only 'twisted pair' wiring and fits into a compact space.

The innovative SRMI micro controller maximizes space by relying on distributed I/O instead of fixed I/O. This unique configuration style frees up panel space and reduces wiring, requiring only the SRMI to be mounted in the panel. The I/O can be distributed anywhere on the machine.

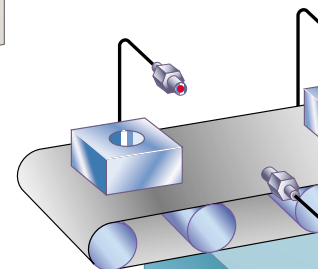
The SRMI combines power, customizable hardware configurations and easy setup to solve multiple applications. Starting with software and setup, the SRMI is quickly setup using a Windows®-based programming software. Its superior performance is based on a 4K word-program capacity, extensive I37-word command instruction set and an instruction execution speed of 0.8 microseconds. The SRMI distributes information at a fast 750 kbps, regardless of the number of I/O points (the SRMI can control up to 256 I/O) via Omron's CompoBus/S communications network. There are a wide variety of available I/O modules that allow you to customize the SRMI to your exact needs.

SRMI reduces wiring by using 'twisted pair' wire.



Compact, space-saving design

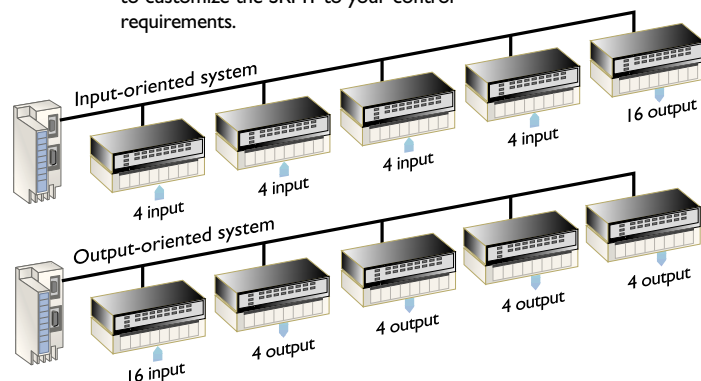
Mount the SRMI in the control panel or on a DIN rail.



Easily expandable design that operates without a backplane

Customize the SRMI to any process and only buy the necessary I/O blocks, up to 256 I/O points.

Choose from a wide variety of I/O blocks to customize the SRMI to your control requirements.



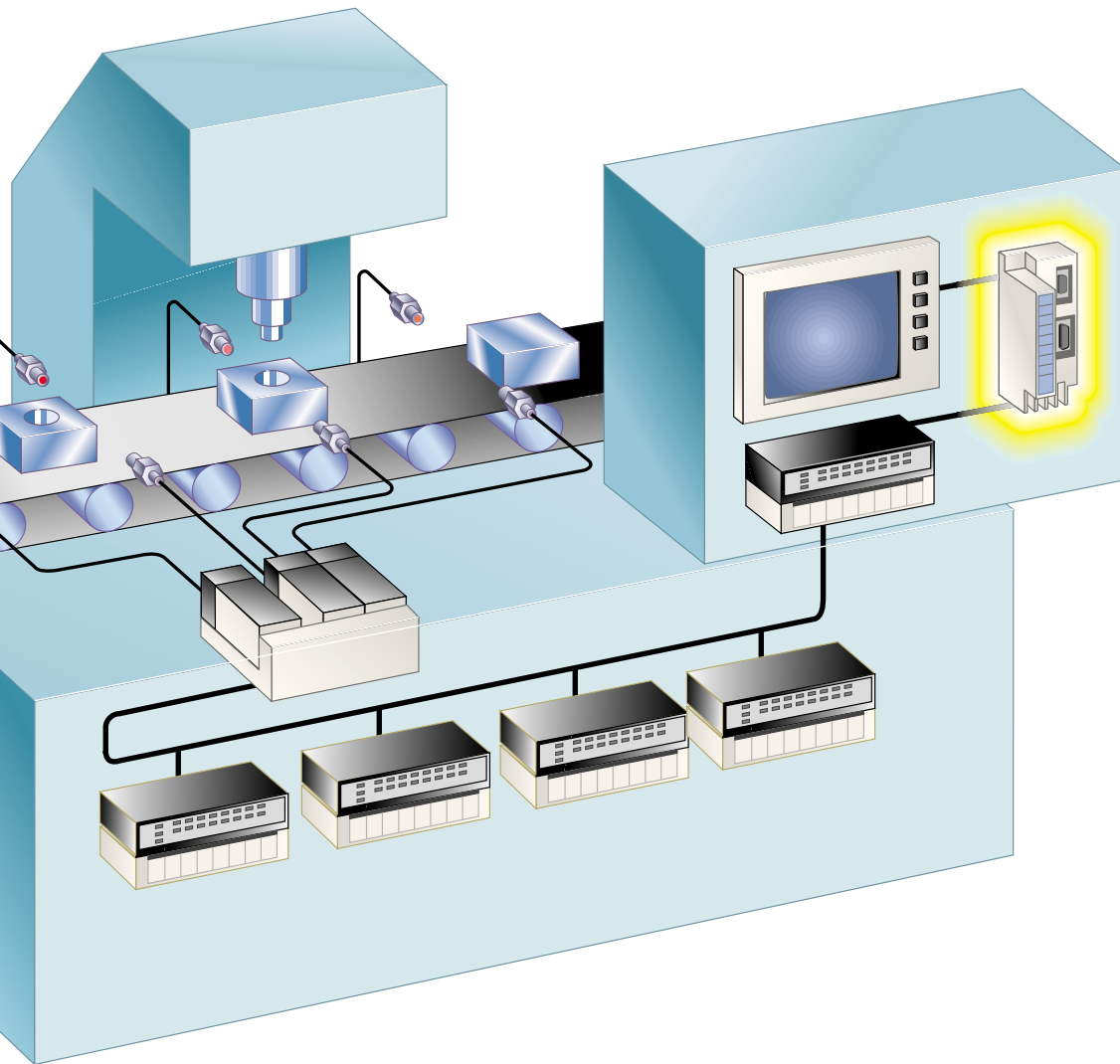
SRT1-RDF16
MOS FET RELAY OUTPUT - 16 POINTS

SRT1-ID04-1
TRANSISTOR INPUT (PNP) MODULES

SRT1-ND08S
SENSOR INPUT/OUTPUT: 4 IN/ 4 OUT

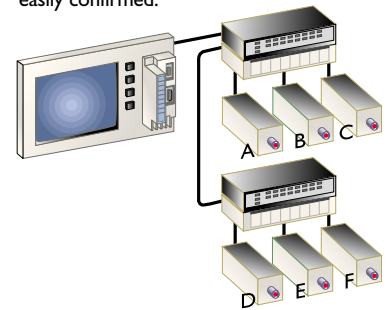


Control Solutions



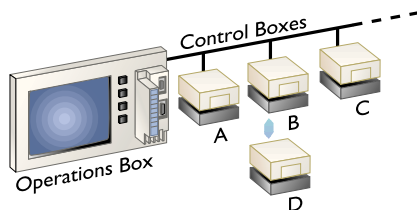
Confirm distributed I/O from one point

CompoBus/S bit information is accessible from the SRMI. For example, a central confirmation terminal can be placed so that confirmation of even hard-to-see parts of control panels can be easily confirmed.



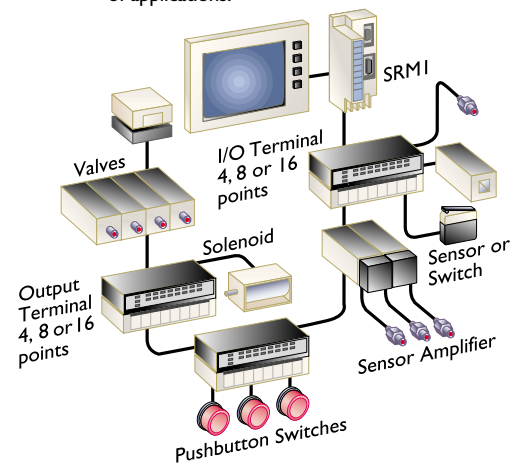
Use control box modules for small machine control

Downsizing and reduced wiring enables modular applications of control boxes. Modules let you use the same design drawings and enable easy replacement for failures. Maintenance is simplified.



A wide array of slaves for flexible application

Sensor Amplifier terminals, Remote Terminals, and many other CompoBus/S Slaves can be connected to meet the needs of a wide range of applications.



SRT1-TKDD4S E3X-NM COMMUNICATION UNIT WITH E3X-NT16 MULTI-FUNCTION SENSOR UNIT, 4 CHANNELS



SRT1-ID16P 16 POINT PCB INPUT/OUTPUT MODULE



Standard Models

Product Name	Model
CPU	SRM1-C01 (without RS-232C Interface)
	SRM1-C01-V1 (without RS-232C; Battery back-up)
	SRM1-C02 (with RS-232C Interface)
	SRM1-C02-V1 (with RS-232C; Battery back-up)

RS-232C/RS-422 Adapters and Connecting Cables

Communications Adapter (Mounting type)	CPM1-C1F01	Peripheral device to RS-232C Adapter
Personal Computer Connecting Cable	CPM1-C1F11	Peripheral device to RS-422C Adapter
	CQM1-C1F02	Peripheral to IBM PC/AT or compatible computer (3.3 m)
	C200HS-CN220-EU	RS-232 port to 9-pin IBM PC/AT (1.8 m)
	C200HS-CN229-EU	RS-232 port to 25-pin IBM PC/AT (1.8 m)

Programming Tools

Programming	CQM1-PRO01	With 2-m cable
Consoles	C200H-PRO27-E	—
	C200H-CN222	2-m connecting cable for C200H-PRO27-E
	C200HS-CN220-EU	RS-232 port to 9-pin IBM PC/AT (1.8 m)
SYSMAC-CPT Programming Software	WS01-CPT-EV1_...	For IBM PC/AT or compatible computer

Standard Slave Units

Transistor Remote Terminals	SRT1-ID04	Transistor input: 4 points
	SRT1-ID08	Transistor input: 8 points
	SRT1-ID16	Transistor input: 16 points
	SRT1-ID04-I	Transistor (PNP) input: 4 points
	SRT1-ID08-I	Transistor (PNP) input: 8 points
	SRT1-ID16-I	Transistor (PNP) input: 16 points
	SRT1-OD04	Transistor output: 4 points
	SRT1-OD08	Transistor output: 8 points
	SRT1-OD16	Transistor output: 16 points
	SRT1-OD04-I	Transistor (PNP) output: 4 points
	SRT1-OD08-I	Transistor (PNP) output: 8 points
	SRT1-OD16-I	Transistor (PNP) output: 16 points
	PCB Remote I/O Modules	SRT1-ID16P
	SRT1-OD16P	PCB output module (NPN; -com): 16 points
Sensor Terminals	SRT1-ID08S	Sensor input: 8 points
	SRT1-ND08S	Sensor input/output: 4 in / 4 out
Relay Remote Terminals (Relays included)	SRT1-ROC08	Relay output: 8 points
	SRT1-ROC16	Relay output: 16 points
	SRT1-ROF08	MOS FET relay output: 8 points
	SRT1-ROF16	MOS FET relay output: 16 points
Sensor Amplifier Terminals	SRT1-TID04S	E3X-NT Communication Unit
	SRT1-TKD04S	E3X-NM Communication Unit
	SRT1-XID04S	E3X-NT Communication Unit Expansion
	SRT1-XKD04S	E3X-NM Communication Unit Expansion
Sensor Units	E3X-NT16	General Purpose, 1 channel
	E3X-NT26	Multi-functional, 1 channel
	E3X-NH16	Long distance, High precision; 1 channel
	E3X-NM16	Multi-functional, 4 channels
	E39-JID01	Sensor Terminal Block unit, 1 channel
Cables and Connectors	SCN1-TH4	Branch Connector
	SCN1-TH4E	Extension Connector
	SCN1-TH4T	Connector Terminator
	SRS1-T	Terminal Block Terminator
	SCA1-4F10	Flat Cable

General Specifications & Performance

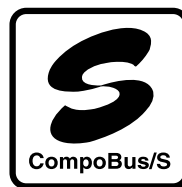
Item	Omron's Specifications
External dimensions	4.33 H x 1.57 W x 2.36 D inches 110 H x 40 W x 60 D mm
Supply voltage	24VDC
Allowable supply voltage	20.4 to 26.4VDC
Power consumption	3.5 W max. (when connected to a Programming Console)

Communications Specifications

Communications method	CompoBus/S protocol	
Number of connectable terminals	32 max	16 max
Maximum number of inputs	128 input and	64 inputs and
	128 outputs	64 outputs
Communications cycle time	0.8 ms	0.5 ms
Baud rate	750 kbps	
Communications cable length	Main line length: 100 m max. (when using VCTF cable)	
	Branch line length: 3 m Total length of branches: 50 m max.	
Cable	VCTF cable: two or four conductor cable (Belden 9409 or equivalent) or special-purpose flat cable (four conductors) (SCA1-4F10)	

CPU Specifications

Programming language	Ladder diagram	
Types of instructions	14 basic instructions and 77 special instruction types (total of 123 special instructions)	
Processing speed	0.8 µs for LD instructions and	
	8.5 µs for MOV instructions	
Program capacity	4,096 words	
Data memory	2,048 words + 512 words (Read only)	
Timers/Counters	128 timers/counters	
Work bits	640 bits	
Memory backup	Flash memory (no back up needed): user programs	
	Capacitor (SRM1-C01 & SRM1-C02 only): data memory (backs up for 20 days at 25°C)	
	Battery (SRM1-C01-V1 & SRM1-C02-V1 only): data memory (backs up for 10 years at 25°C)	
Peripheral port	One port	
RS-232C port	One port (SRM1-C02 and SRM1-C02-V1)	
	Host Link, NT Link, I:1 Link, No Protocol	
Programming tools	Programming Console, SYSMAC-CPT	



**Part of the
CompoBus/S
Communications
Network**

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