OMRON C200H-RM201

Remote I/O Master Module

Limited Availability
Used and in Excellent Condition

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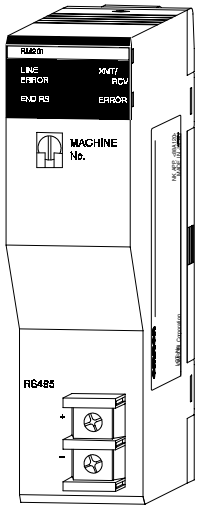
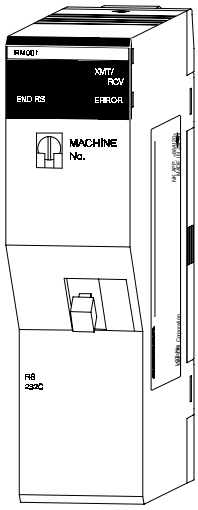
SYSMAC BUS Remote Master and Slave Modules

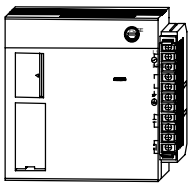
C200H-RM201, C200H-RM001-P
C200H-RT001-P, C200H-RT002-P
C200H-RT201, C200H-RT202



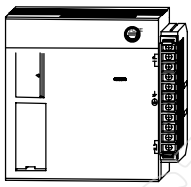
C200H-RM201



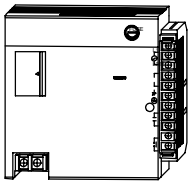
C200H-RM001



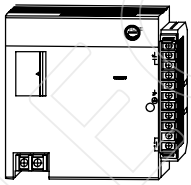
C200H-RT001-P



C200H-RT002-P



C200H-RT201



C200H-RT202

SYSMAC BUS Remote Master Modules

The SYSMAC BUS remote master modules expand the PLC system and provide the communication interface to SYSMAC BUS remote I/O systems. Each remote master module can control several remote expansion racks including C500 remote expansion racks and C200H remote expansion racks. In addition, fiber-optic remote master modules can also control SYSMAC BUS fiber-optic remote I/O blocks. Wired remote master modules can also control SYSMAC BUS wired remote I/O blocks, analog I/O blocks, programmable terminals, and third party devices. Multiple SYSMAC BUS masters can be used in a single PLC. The modules are C200H I/O modules, and can be installed in the CPU rack or local expansion rack.

SYSMAC BUS Remote Slave Modules

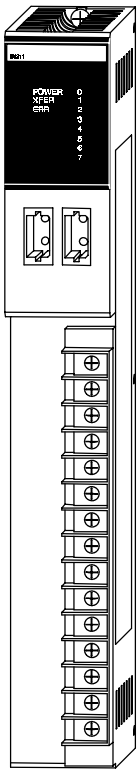
These remote slave modules connect C200H remote expansion racks to the SYSMAC BUS remote master module. Both fiber-optic and twisted pair versions are available. The module mounts in the right-most slot of the remote expansion rack. The power supply is also built-in. Multiple racks can be connected to a single master module.

Remote Master Modules

	Transmission media	Part number
	Fiber-optic cable	**C200H-RM001-P**
	Twisted pair conductor	**C200H-RM201**

Remote Slave/Power Supply Modules

Power Suppy	Transmission media	Part number
120 VAC	Fiber-optic cable	**C200H-RT001-P**
24 VDC	Fiber-optic cable	**C200H-RT002-P**
120 VAC	Twisted pair conductor	**C200H-RT201**
24 VDC	Twisted pair conductor	**C200H-RT202**



General Information

SYSMAC BUS fiber-optic remote I/O blocks can be connected to SYSMAC BUS fiber-optic remote I/O systems to provide a smaller number of I/O points at remote locations. Each SYSMAC BUS fiber-optic remote I/O block provides 8 input or output points.

Features

- Uses standard Omron fiber-optic cables and connectors
- Simple cable configuration and termination in the field

SYSMAC BUS Fiber-optic Remote Input Blocks

Specifications

Part number	3G5A2-ID001-(P)E	3G5A2-IA121-(P)E	3G5A2-IA221-(P)E
Input voltage	No-voltage contacts	100 VAC +10%/-15% 50/60 Hz	200 VAC +10%/-15% 50/60 Hz
Input impedance	—	9.7 kΩ (50 Hz) 8 kΩ (60 Hz)	22 kΩ (50 Hz) 18 kΩ (60 Hz)
Input current	10 mA typical	10 mA typical (at 100 VAC)	10 mA typical (at 100 VAC)
ON delay time	10 ms max.	10 ms max.	10 ms max.
OFF delay time	15 ms max.	15 ms max.	15 ms max.
Number of circuits	8 pts. (per common)	8 pts. (per common)	8 pts. (per common)
ON voltage	—	60 VAC min.	120 VAC min.
OFF voltage	—	20 VAC max.	40 VAC max.
Power supply voltage	120 VAC	120 VAC	120 VAC
Power consumption	25 VA max.	20 VA max.	20 VA max.

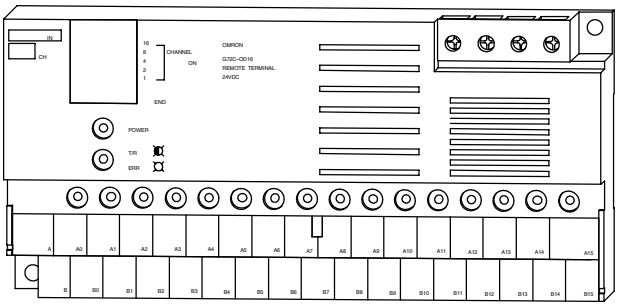
Specifications

Part number	3G5A2-IM211-(P)E
Input voltage	12 to 24 VAC/DC +10%/-15%
Input impedance	1.8 kΩ
Input current	10 mA typical (at 24 VDC)
ON delay time	10 ms max.
OFF delay time	15 ms max.
Number of circuits	8 pts. (per common)
ON voltage	10.2 VDC min.
OFF voltage	3.0 VDC max.
Power supply voltage	120 VAC
Power consumption	20 VA max.

SYSMAC BUS Fiber-optic Remote Output Blocks

Specifications

Part number	3G5A2-OC221-(P)E	3G5A2-OD411-(P)E	3G5A2-OA222-(P)E
Max. switching capacity	Resistive: 2 A, 250 VAC (p.f. = 1) 2 A, 24 VDC Inductive: 0.5 A, 250 VAC (p.f. = 0.4)	0.3 A, 12 to 48 VDC +10%/15%,	1 A, 120/240 VAC +10%/-15%
Min. switching capacity	100 mA, 5 VDC	—	10 mA, 100 VAC
Leakage current	—	100 μA max.	3 mA max. (at 100 VAC)
Saturation voltage	—	1.5 V max.	1.2 V max.
ON delay time	15 ms max.	0.2 ms max.	1 ms max.
OFF delay time	15 ms max.	0.3 ms max.	Max. 1/2 of load frequency
Number of circuits	8 pts. (per common)	8 pts. (per common)	8 pts. (per common)
Service life	Electrical: 300,000 operations (resistive load) 100,000 operations (inductive load) Mechanical: 50,000,000 operations	—	—
Fuse capacity	—	—	250 V, 5 A
Power supply voltage	120/240 VAC	120/240 VAC	120/240 VAC
Power consumption	20 VA max.	20 VA max.	20 VA max.



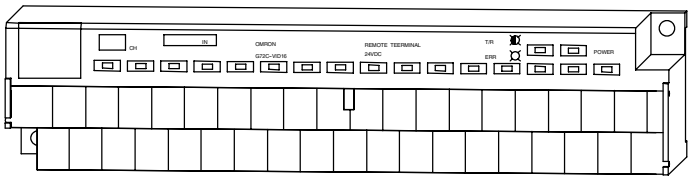
G72C-ID16-DC24V
G72C-OD16-DC24V

General Information

The remote I/O blocks integrate the functions of the remote I/O stand-alone slave and the I/O block. The remote I/O blocks connect to SYSMAC BUS wired remote I/O systems.

Features

- Cost-effective distribution to 16 I/O points
- LED indicators for power, transmission, errors, and I/O status
- DIN Rail or control panel mounting



G72C-VID16-DC24V
G72C-VOC16-DC24V

Specifications – Input

Part number	G72C-ID16-DC24V	G72C-VID16-DC24V
Points	16 (8/com.)	16 (16/com.)
Required supply voltage	200 mA, 24 VDC	200 mA, 24 VDC
Internal circuit	NPN (pos. com.)	NPN (pos. com.)
Device	Transistor	Transistor
Input current	9.7 mA/pt.	9.7 mA/pt.
Input voltage	24 VDC	24 VDC
ON time	1.5 ms	1.5 ms
OFF Time	1.5 ms	1.5 ms

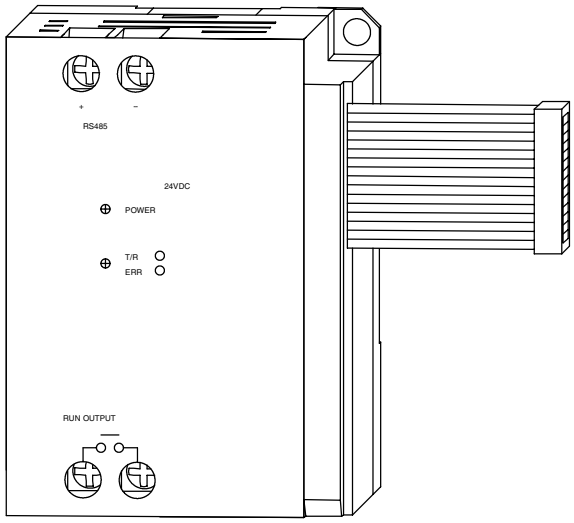
Specifications – Output

Part number	G72C-OD16-DC24V	G72C-VOD16-DC24V
Points	16 (8/com.)	16 (16/com.)
Switching capacity	0.3 A/pt., 24 VDC	0.3 A/pt. (2.4 A total), 24 VDC
Required supply voltage	200 mA, 24 VDC	200 mA, 24 VDC
Internal circuit	NPN (pos. com.)	NPN (neg. com.)
Device	Transistor	Transistor

All Remote I/O Blocks require a 24 VDC power supply. Omron recommends the S82K family of power supplies.

SYSMAC BUS Wired Remote I/O Stand-Alone Slaves

G71



General Information

Remote I/O stand-alone slaves connect to SYSMAC BUS wired remote I/O systems. The remote stand-alone slave connects directly to I/O blocks.

Features

- Remote I/O stand-alone slave and block combinations offer flexible system design
- Compatible with C-series and CV-series PLCs
- Can be located closer to field I/O devices, effectively reducing wiring costs, and lowering the cost of the distributed control system
- LED indicators for power, transmission, and errors
- DIN rail or control panel mounting

Specifications – Input

Part number	G71-IC16-DC24V
Points	16 (8/com.)
Input voltage	24 VDC
Input current	6.7 mA/pt.
ON time	9 ms, max.
OFF time	14.5 ms, max.
ON voltage	15 VDC, max.
OFF voltage	5.6 VDC, max.
Internal circuit	NPN (pos. com.)

Specifications – Output

Part number	G71-OD16-DC24V
Points	16 (8/com.)
Input voltage	24 VDC
Output current	30 mA/pt.
Residual voltage	1.2 V, max.
Leakage current	100 μA, max.
Internal circuit	NPN (neg. com.)

Specifications

Part number	G71-IC16-DC24V	G71-OD16-DC24V
Applicable I/O Blocks	G7TC-IA16, G7TC-ID16, P7TF-IS16	G7TC-OC16, G7TC-OC08, P7TF-OS16, P7TF-OS08

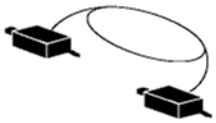
All Remote I/O blocks require a 24 VDC power supply. Omron recommends the S82K family of power supplies.

System Configuration

CPU Racks

8-slot Rack (Example)

C200H-CN 1



Connect with C200H-CN Ll
I/O Connecting Cable

Connects the CPU Rack to one or more Expansion I/O Racks. Cables are available in 0.3, 0.7, 2, 5 and 10 m lengths.

Expansion I/O Racks

8-slot Rack (Example)

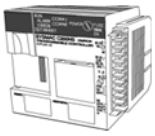
Up to two Expansion I/O Racks can be connected to each CPU Rack.

Slave Racks

8-slot Rack (Example)

One or more Slave Racks can be connected via optical or wire cable to a Remote I/O Master Module mounted on either a CPU or Expansion I/O Rack. Up to five Slave Racks can be connected per CPU Rack.

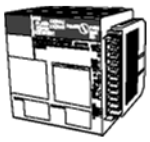
CPUs



C200HS-CPU31

CPUs with Communications

100/200 VAC: C200HS-CPU31-E
C200H-CPU31-E
24 VAC: C200HS-CPU33-E



C200HS-CPU21-E

Standard CPUs

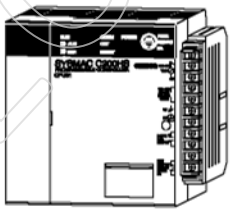
100/200 VAC: C200HS-CPU01/21-E
C200H-CPU01/21-E
24 VAC: C200HS-CPU03/23-E
C200H-CPU03/23-E

CPU Memory

C200H
RAM C200H-MR
EPROM C200H-ME 1
EEPROM C200H-ME 2

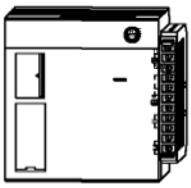
C200HS
EPROM C200HS-MP16K
EEPROM C200HS-ME16K

I/O Power Supplies



100/200 VAC: C200H-PS221
24 VAC: C200H-PS211

Remote I/O Slave Modules

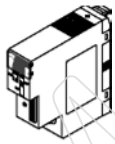


100/200 VAC
Optical: C200H-RT001-P
Wired: C200H-RT201

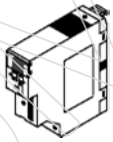
24 VAC
Optical: C200H-RT002-P
Wired: C200H-RT202

Communications Modules

SYSMAC Link Modules
C200HS-SLK12/22



SYSMAC Net Modules
C200HS-SNT32



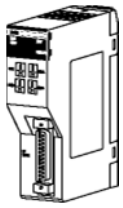
Link Modules

Host Link Modules

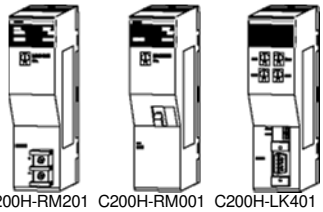
Optical: C200H-LK101-PV1

RS-422: C200H-LK202-V1

RS-232C: C200H-LK201-V1



Remote I/O Master Modules PC Link Modules



C200H-RM201 C200H-RM001 C200H-LK401

Interrupt Input Module

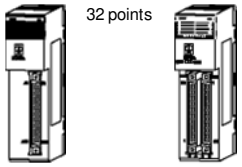
The interrupt function of this Module is available only when it is mounted to the CPU Rack (see note). When mounted to an Expansion Rack, the Module can be used only as a Standard I/O Module.

C200HS-INT01

High-Density I/O Modules

(Group-2 Modules)

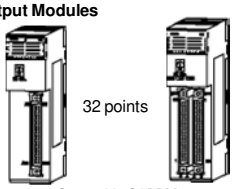
Input Modules



32 points 64 points

C200H-I

Output Modules



32 points 64 points

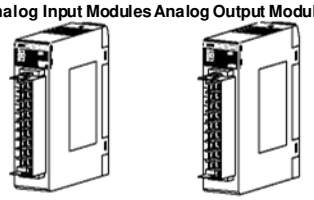
C200H-O

Note: Only one Interrupt Input Module can be used with a CPU.

System Configuration

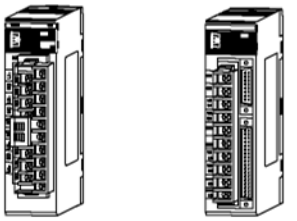
Special I/O Modules

Analog Input Modules **Analog Output Modules**



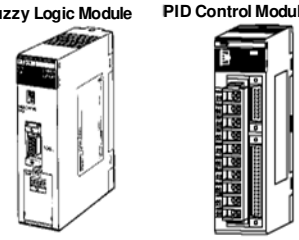
C200H-AD001/002 C200H-DA001

Temperature Sensor Modules **Temperature Control Modules**



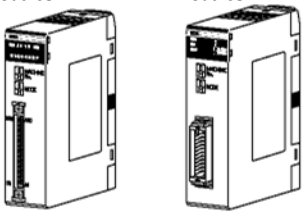
C200H-TSLLL C200H-TCLLL

Fuzzy Logic Module **PID Control Modules**



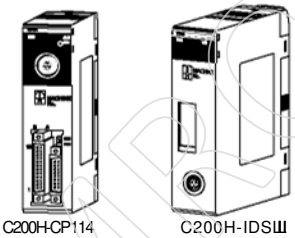
C200H-FZ001 C200H-PIDLL

High Speed Counter Modules **Position Control Modules**



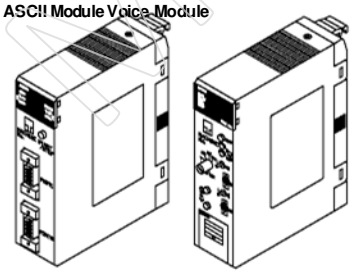
C200H-CTLLL C200H-NCLLL

Cam Position Modules **ID Sensor Module**



C200H-CP114 C200H-IDSLL

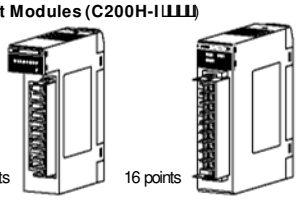
ASCII Module Voice Module



C200H-ASC02 C200H-OV001

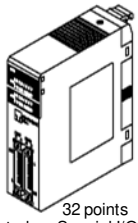
I/O Modules

Input Modules (C200H-ILLLL)



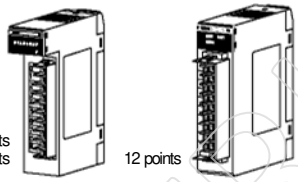
8 points 16 points

(AC, DC, AC/DC, transistor inputs)

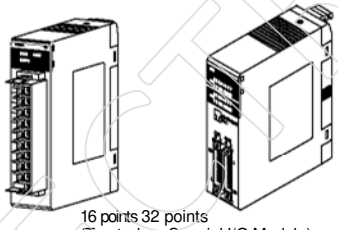


32 points
(Treated as Special I/O Module)

Output Modules (C200H-OLLLL)

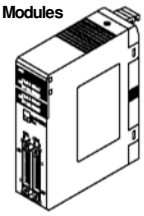


5 points
8 points 12 points

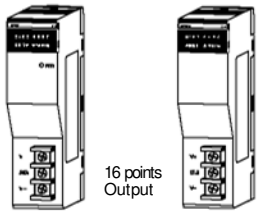


16 points 32 points
(Treated as Special I/O Module)

DC Input/Transistor Output Modules C200H-MDLLL
(16 inputs and 16 outputs; treated as Special I/O Module.)



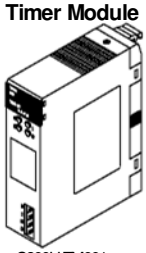
B7A Interface Modules



16 points Input 16 points Output

C200H-B7AI1 C200H-B7AO1

Analog Timer Module

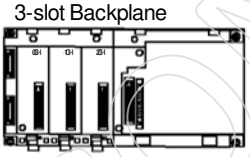


C200H-TM001

Backplanes

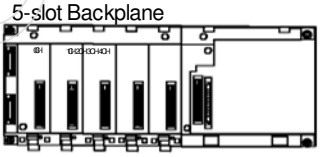
The same Backplanes are used for CPU, Expansion I/O, and Slave Packs.

3-slot Backplane



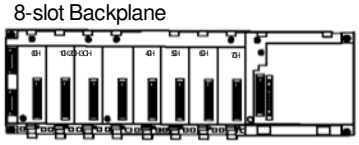
C200H-BC031-V2

5-slot Backplane



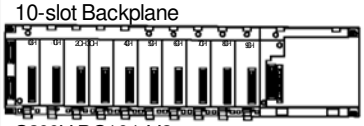
C200H-BC051-V2

8-slot Backplane



C200H-BC081-V2

10-slot Backplane



C200H-BC101-V2