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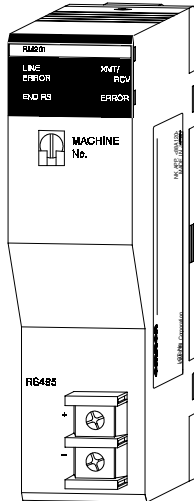
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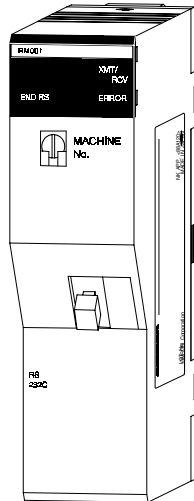
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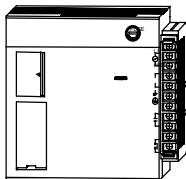
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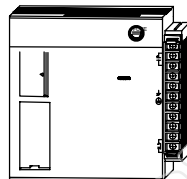
C200H-RM201



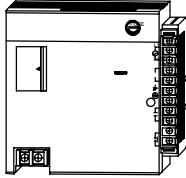
C200H-RM001



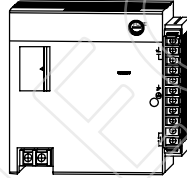
C200H-RT001-P



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

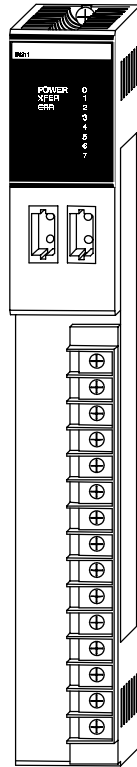
These remote slave modules connect C200H remote expansion racks to the SYSMAC BUS remote master module. Both fiber-optic and twisted pair versions are available. The module mounts in the right-most slot of the remote expansion rack. The power supply is also built-in. Multiple racks can be connected to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

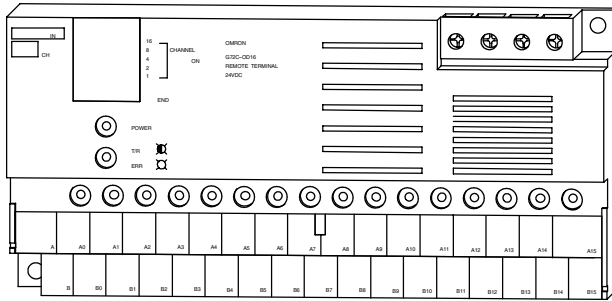
**Specifications**

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.

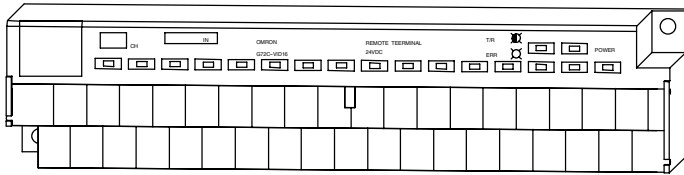
### SYSMAC BUS Fiber-optic Remote Output Blocks

#### Specifications

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



G72C-ID16-DC24V  
G72C-OD16-DC24V



G72C-VID16-DC24V  
G72C-VOC16-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

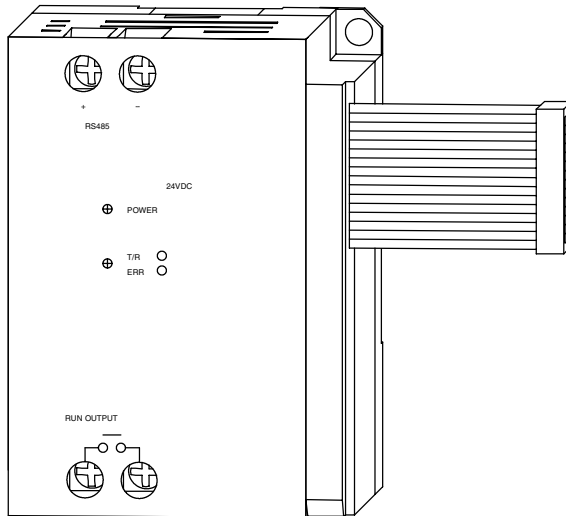
## Specifications – Input

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.



### 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	<b>G71-IC16-DC24V</b>
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

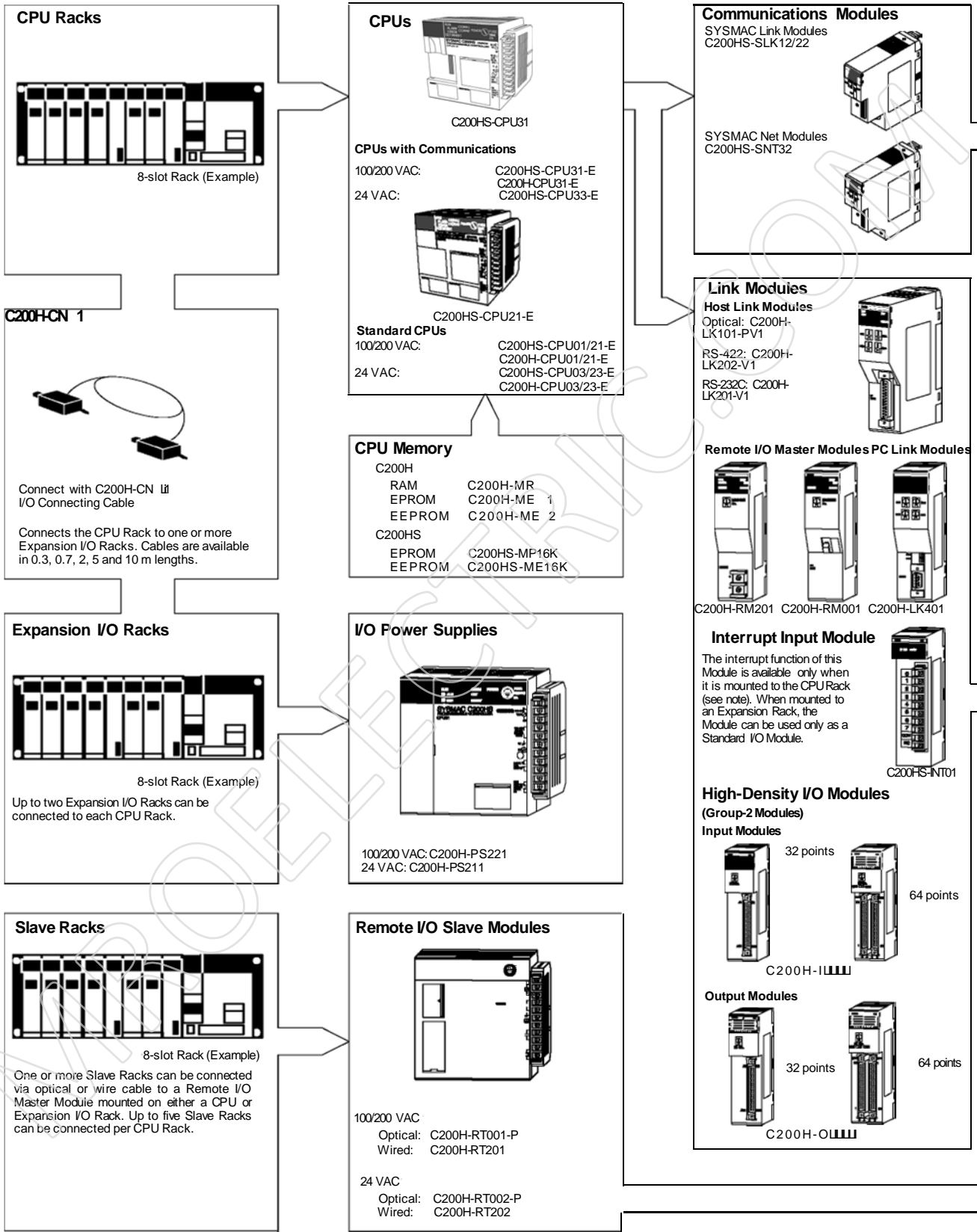
Part number	<b>G71-OD16-DC24V</b>
Points	16 (8/com.)
Input voltage	24 VDC
Output current	30 mA/pt.
Residual voltage	1.2 V, max.
Leakage current	100 $\mu$ A, max.
Internal circuit	NPN (neg. com.)

### Specifications

	<b>G71-IC16-DC24V</b>	<b>G71-OD16-DC24V</b>
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

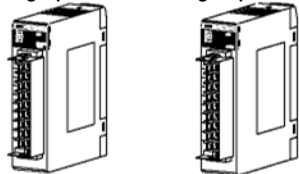


**Note:** Only one Interrupt Input Module can be used with a CPU.

# System Configuration

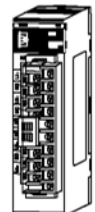
## Special I/O Modules

Analog Input Modules Analog Output Modules



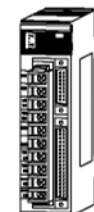
C200H-AD001/002 C200H-DA001

Temperature Sensor Modules



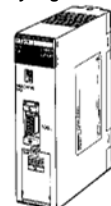
C200H-TS001

Temperature Control Modules



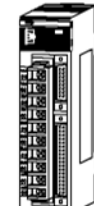
C200H-TC001

Fuzzy Logic Module



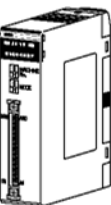
C200H-FZ001

PID Control Modules



C200H-PID01

High Speed Counter Modules



C200H-CT001

Position Control Modules



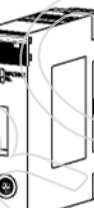
C200H-NCL01

Cam Position Modules



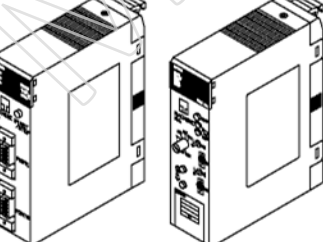
C200H-CP114

ID Sensor Module



C200H-IDS01

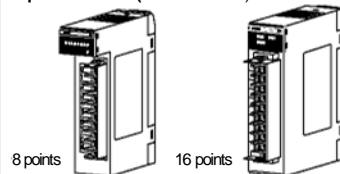
ASCII Module Voice Module



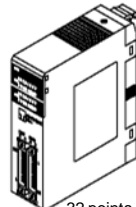
C200H-ASC02 C200H-OV001

## I/O Modules

Input Modules (C200H-I0000)

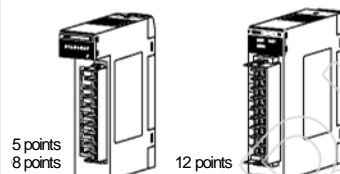


8 points 16 points  
(AC, DC, AC/DC, transistor inputs)

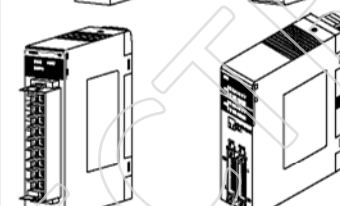


32 points  
(Treated as Special I/O Module)

Output Modules (C200H-O0000)



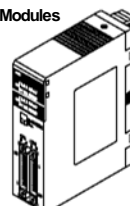
5 points 12 points  
8 points



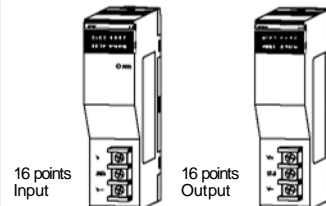
16 points 32 points  
(Treated as Special I/O Module)

DC Input Transistor Output Modules

C200H-M0000  
(16 inputs and 16 outputs; treated as Special I/O Module.)

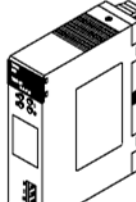


B7A Interface Modules



16 points Input 16 points Output  
C200H-B7A11 C200H-B7A01

Analog Timer Module

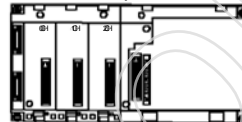


C200H-TM001

## Backplanes

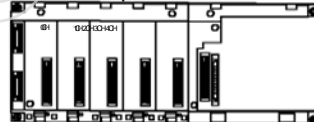
The same Backplanes are used for CPU, Expansion I/O, and Slave Packs.

3-slot Backplane



C200H-BC031-V2

5-slot Backplane



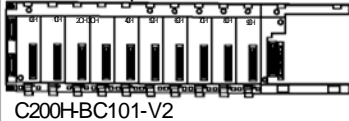
C200H-BC051-V2

8-slot Backplane



C200H-BC081-V2

10-slot Backplane



C200H-BC101-V2





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