

Master Link Interface Modules

С200Н-В7АПП

Reduce Wiring of 16 or 32 I/O Points to CS1 and C200H Controllers

- Transmission distance up to 500 m
- Master acts like a high-density I/O module connecting 16 or 32 points to the controller with just two or three wires
- Supports 16-point input, output, mixed I/O and 10-point B7A terminal blocks and printed circuit board modules
- Output modules offer Hold and Load OFF handling of transmission errors
- Use two power supplies to assure the maximum transmission distance

Ordering Information

■ MASTER LINK MODULES FOR CS1 AND C200H CONTROLLERS

I/O classification	Transmission capabilities	Part number	
16-point input	Long distance (19.2 ms)	C200H-B7AI1	
16-point output	Long distance (19.2 ms)	C200H-B7AO1	
32-point input (Group-2 I/O)	Long distance (19.2 ms) and high-speed (3 ms), selectable	C200H-B7A12	
Mixed I/O, 16-point input/16-point output (Group-2 I/O)	Long distance (19.2 ms) and high-speed (3 ms), selectable	C200H-B7A21	
Mixed I/O, 32-point input/ 32-point output (Group-2 I/O)	Long distance (19.2 ms) and high-speed (3 ms), selectable	C200H-B7A22	
32-point output (Group-2 I/O)	Long distance (19.2 ms) and high-speed (3 ms), selectable	C200H-B7A02	

■ SWITCHING POWER SUPPLIES

Input voltage	Output rating	Application	Part number
120 to 240 VAC	0.13 A, 24 VDC	Use one to power each input or output block	S82K-00324
	0.3 A, 24 VDC	Use one to power two blocks from a single power supply	S82K-00724
	0.6 A, 24 VDC	Use this to power blocks connected to sensors, relays indicator lights	S82K-01524
	1.3 A, 24 VDC	Use one where excess power is needed	S82K-03024



Specifications -

■ RATINGS

Item	C200H-B7AI1	C200H-B7AO1	C200H-B7A02	C200H-B7A12	C200H-B7A21	C200H-B7A22			
Classification	Special I/O modules		Group-2 Special I/O modules						
No. of I/O points	16 inputs (See Note 1)	16 outputs	32 outputs	32 inputs (See Note 2)	16 inputs, 16 outputs (See Note 1)	32 inputs, 32 outputs (See Note 2)			
Transmission method	Single-direction, time-division multiplex								
Transmission distance (See Note 3)	Long distance: 500 m max. or 100 m max. High-speed: 100 m max. or 50 m max.								
Transmission speed	Normal: 19.2 ms (typical); 31 ms max.		Normal: 19.2 ms (typical); 31 ms max. High-speed: 3 ms (typical); 5 ms max.						
I/O word allocation	Same as I/O modules, in the order modules are mounted		The words allocated to Group-2 B7A Master Link interface modules are determined by I/O number set on the modules. Words 030 to 049 allocated according to I/O number setting. Modules with 32 I/O points are allocated two words; modules with 64 I/O pints are allocated 4 words.						
Required power supply (See Note 4)	0.01 A min.	0.03 A min.	0.05 A min.	0.06 A min.	0.05 A min.	0.08 A min.			
Current consumption	100 mA max., 5 VDC								

Note: 1. Input mode setting allows selection between 16-point input and 15-point input + 1 error input.

2. Input mode setting allows selection between 32-point input and 30-point input + 2 error inputs.

3. The transmission distance varies with the transmission speed and depends on where power is applied: For normal-speed setting:

If B7A Master Link and the B7A input and output modules each have power supplies, the transmission distance is 500 m. If one power supply is attached, the transmission distance is 100 m.

For high-speed setting:

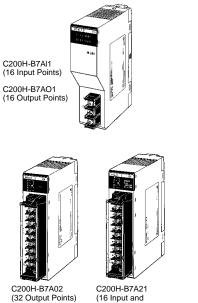
If B7A Master Link and the B7A input and output modules each have power supplies, the transmission distance is 100 m. If one power supply is attached, the transmission distance is 50 m.

4. The value of the external power supply does not include the value required by the B7A slave terminal modules.

For more details on the B7A Master Link Interface Modules, refer to Appendix B of the C200HS Installation Guide (W236).

Dimensions

Unit: mm (inch)



(16 Input and 16 Output Points)



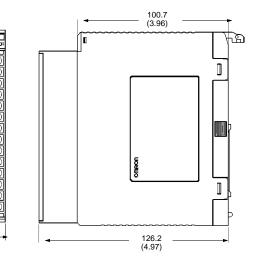
C200H-B7A22

(32 Input and 32 Output Points)

Θ 130 (5.12)

34.5

(1.36)



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.



OMRON CANADA, INC. 885 Milner Avenue Scarborough, Ontario M1B 5V8 416-286-6465

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Specifications subject to change without notice.

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