

Master Link Interface Modules

C200H-B7A□□

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-B7A11
16-point output	Long distance (19.2 ms)	C200H-B7A01
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

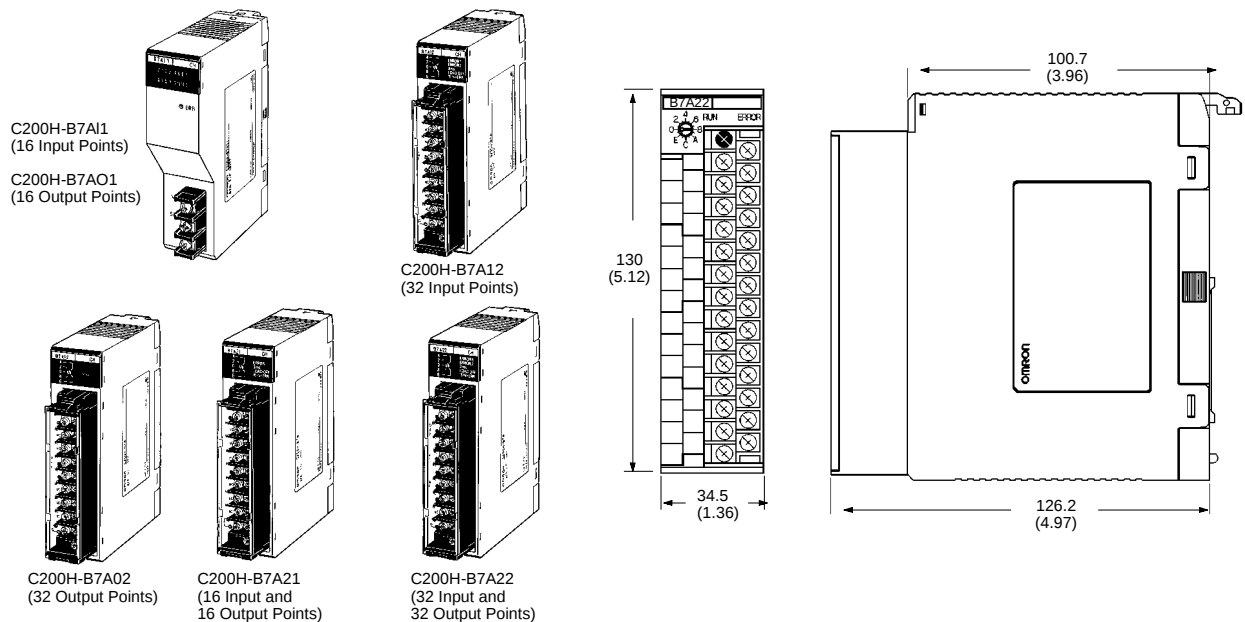
RATINGS

Item	C200H-B7A1	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 allo- cated according to I/O number setting. Modules with 32 I/O points are allocated two words; modules with 64 I/O points 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)



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

OMRON[®]**OMRON ELECTRONICS, INC.**One East Commerce Drive
Schaumburg, IL 60173**1-800-55-OMRON****OMRON CANADA, INC.**885 Milner Avenue
Scarborough, Ontario M1B 5V8**416-286-6465**