

# cHBS01-CJC

## ABB Ability™ Symphony® Plus Hardware Selector



Product image  
not available

The cHBS01-CJC the mounting base is for the cAI04 Compact, Singular, 8-CH, TC & mV analog input module. The base includes a built-in RTD that can be used for Cold Junction Compensation.

One (1) 16-point header on the base provides a connection to either a pluggable 16-point terminal block for direct connection of field signal wires or to an SPK0x\_yy marshaling cable when field signal wires are landed on 3rd party termination hardware.

### Features and benefits

- Termination for up to eight (8) TC or mV process signals within a Horizontal row.
- All SD I/O modules & bases of all types (Singular or Redundant) AND (Compact or Full-size), are 100% fully compatible with each other. Thus, Singular & Redundant, Compact or Full-size I/O modules can be mounted within a single, common HN800 I/O bus.
- Optional mechanical keying can be implemented to prevent insertion of the wrong I/O module type.
- Latching device on the base locks the base into position on DIN-Rail.
- Industry standard 35-mm DIN rail, Horizontal row mounting.

General info	
Article number	2VAA008419R1 (cHBS01-CJC)
Line redundancy	Redundant HN800 I/O Bus
Channels	8
Hot swap	No
Supported IO modules	cAI04
Singular or redundant	Singular
Form factor	Compact (127 mm Tall x 45 mm Wide)
Mounting	Horizontal Row
HN800 bus length	90 mm
MTBF (per MIL-HDBK-217-FN2)	16,462,548 Hrs
MTTR (Hours)	8 Hrs

**Detailed data**

Overvoltage category	Category 1 for power. Tested according to IEC/EN 61010-1
Process signal connections	8-CH TC/mV AI
Field power connection	Compact
Field power fusing	n/a
Signal connection	1x pluggable 16-pt Terminal Blocks
Max current	250mA
Acceptable field signal wire sizes	#22 -14 AWG stranded or solid, #12 AWG stranded
Galvanic isolation test voltage	1500 V for up to 1 minute

**Environment and certification**

Temperature, Operating	-40 to +70 °C Tested according to IEC/EN 60068-2-1, IEC/EN 60068-2-2
Temperature, Storage	-40 to +85 °C Tested according to MIL-STD-810G
Relative humidity	20% to 95% @ 40°C non-condensing. Tested according to IEC/EN 60068-2-78, IEC/EN 61298-3
Vibration (operational sinusoidal)	5 to 60 Hz 0.137 mm (0.0054 in.), 60 to 150 Hz 1.0 G. Tested according to IEC/EN 60068-2-6
Vibration (transportation)	10 to 500 Hz. Tested according to MIL-STD-810G
Shock (storage)	15 G, 11 msec. Tested according to IEC/EN 60068-2-27
Drop	100 mm. Tested according to IEC/EN 60068-2-31
Protection class	IP20 according to EN 60529
Altitude (operational)	Sea level to 3,048 meters (10,000 ft.) Tested according to MIL-STD-810G
Altitude (storage)	Sea level to 12,192 meters (40,000 ft.) Tested according to MIL-STD-810G
Air quality	ISA S71.04 G1, ISA S71.04 G3 compliant versions cHBS01-CJCA are also available
ESD immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-2, Severity level 3
Surge immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-5, Severity level 3
Electrical fast transient immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-4, Severity level 3
Radiated RFI immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-3, Severity level 3
Conducted Immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-6, Severity level 3
Magnetic field immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-8, Severity level 4
Radiated emission	Tested according to IEC/EN 61000-6-4, CISPR 11 + A1, CISPR 16-1-1, Group 1, Class A, ISM equipment
Conducted emission	Tested according to IEC/EN 61000-6-4, CISPR 11 + A1, CISPR 16-1-1, Group 1, Class A, ISM equipment
Voltage dips and interruption immunity	Tested according to IEC/EN 61000-6-2, IEC/EN 61000-4-11
CSA non-hazardous locations	Certified for use as process control equipment in an ordinary (non-hazardous) location
CSA hazardous, nonincendive locations	Class I, Division 2, Groups A, B, C, D
CE Mark	CE Mark EMC directive 2004/108/EC & Low Voltage Directive 2006/95/EC
RoHS compliance	RoHS Directive 2015/863
WEEE compliance	DIRECTIVE/2012/19/EU

**Dimensions**

Width	45 mm
Depth	105.8 mm
Height	136.7 mm
Weight	198 g

---

[solutions.abb.com/symphonyplus](https://solutions.abb.com/symphonyplus)  
[solutions.abb.com/controlsystems](https://solutions.abb.com/controlsystems)

---

800xA and Symphony Plus is a registered trademark of ABB. All rights to other trademarks reside with their respective owners.

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2024 ABB All rights reserved