

# HDT-XIO-01

## ABB Ability™ Symphony® Plus Hardware Selector



The HDT-XIO-01 High-Density Termination module is used to terminate field wiring for up to 16 I/O Channels to the back side of an EMC-B0x Evolution Mounting Chassis. The HDT is installed on the back side of an EMC using an HDT-BRK-01 Bracket mounting assembly. The HDT-XIO-01 provides header connectors for four (4) pluggable 8-PT Terminal Blocks (which are sold separately). The HDT-XIO-01 also provides a 2-PT Terminal Block for the connection of Field I/O power.

The HDT-XIO-01 is capable of providing field I/O wiring termination for AD11e, AI12e, AO02es, DI06e, DO01e, DO05e, FI12e and PI01e SDe Series I/O modules. HDT-XIO-01 has a series of jumpers (J1 thru J21) that are used to configure specific I/O applications. Refer to 7PAA013189 S+ High-Density Terminations User Manual for detailed information regarding the proper installation and set-up of HDT-XIO-01.

### Features and benefits

- Connects to back side of an EMC-\_B0x Evolution Mounting Chassis using an HDT-BRK-01 Mounting Bracket assembly
- Terminates 15 Channels when used with AI12e or FI12e Analog Input modules
- Terminates 14 Channels when used with AO02e Analog Output module
- Terminates 16 Channels when used with DI06e Digital Input module
- Terminates 16 Channels when used with DO01e Transistor Digital Output module
- Terminates 8 Channels when used with DO05e Electro-Mechanical Relay Digital Output module @ .5 Amp Max
- Terminates 13 Mixed I/O Channels when used with AD11e Analog Drive module

General info	
Article number	7PAA008675R11
Life cycle status	Active
Line redundancy	No
Hot swap	No
Supported IO modules	AD11e, AI12e, AO02e, DI06e, DO01e, DO05e, FI12e and PI01e
Singular or redundant	Singular
Form factor	EMC-_B0_ Evolution Mounting Chassis
Mounting	EMC-DB01, EMC-DB02, EMC-SB01, EMC-SB02
HN800 bus length	n/a
MTBF (per MIL-HDBK-217-FN2)	PR A: 167,809 Hours @ 30 °C 167,562 Hours @ 40 °C 166,666 Hours @ 70 °C
MTTR (Hours)	8 Hrs

<b>Detailed data</b>	
Overvoltage category	Category 1 for power. Tested according to IEC/EN 61010-1
Process signal connections	See Features and Benefits section in this datasheet or User manual
Field power connection	@ HDT-XIO
Field power fusing	@ HDT-XIO
Signal connection	Terminal Blocks
Max current	2.5 A (Configuration dependent, please see user manual for more details)
Acceptable field signal wire sizes	16AWG - 28AWG
Galvanic isolation test voltage	1500 V for up to 1 minute

<b>Environment and certification</b>	
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	Standard = ISA S71.04 G3 compliant
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 61000-6-2, IEC/EN 61000-4-6, Severity level 3
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

<b>Dimensions</b>	
Width	30.7 mm
Depth	134.5 mm
Height	130.5 mm
Weight	250 grams

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