

MB910e (Controller MTU)

ABB Ability™ Symphony® Plus Hardware Selector



The MB910e horizontal Module Base provides the mounting for a singular or redundant pair of SPC810e controller modules. SPC810e evolution controller modules support multiple mounting options from MMUs, EMCs, and horizontal and vertical DIN-Rails.

The MB910e base connects the SPC810e controller modules to the HN800 I/O bus.

The MB910e base also connects the controllers to the CW800 Peer-to-Peer bus for synchronous controller communications.

Features and benefits

- Mounts two (2) SPC810e controller modules to a horizontal DIN-Rail.
- Connects SPC810e controller modules to redundant HN800 I/O bus.
- Connects SPC810e controller modules to redundant CW800 Peer-to-Peer bus.
- Provides four (4) RJ45 connectors for 100/1000 MB Ethernet for PN800 Control Network.

General info

| | |
|-----------------------------|---|
| Article number | 7PAA006638R11 (MB910e) |
| Life cycle status | Active |
| Line redundancy | Yes |
| Hot swap | No |
| Singular or redundant | Singular and redundant |
| Form factor | Compact (127 mm) |
| Mounting | Horizontal DIN-rail |
| HN800 bus length | 200 mm |
| MTBF (per MIL-HDBK-217-FN2) | PR B: 5,553,552 @ 30 °C; 4,700,973 @ 40 °C; 2,883,415 @ 70 °C |
| MTTR (Hours) | 8 Hrs |

| Detailed data | |
|------------------------------------|--|
| Overvoltage category | Category 1 for power. Tested according to IEC/EN 61010-1 |
| Process signal connections | n/a |
| Field power connection | n/a |
| Field power fusing | n/a |
| Signal connection | 100/1000 MB Ethernet |
| Max current | n/a |
| Acceptable field signal wire sizes | n/a |
| 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 | 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 |

| Dimensions | |
|-------------------|-----------------------|
| Width | 96 mm (3.8 in.) |
| Depth | 127 mm (5.0 in.) |
| Height | 127 mm (5.0 in.) |
| Weight | 355 grams (0.783 lbs) |

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