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Data Bulletin

MODICON® QUANTUM™ 140XBP00400 4-SLOT BACKPLANE



General Description

Backplanes are designed to mechanically secure and electrically connect all modules used in a Quantum system. The backplane contains a passive circuit board which permits modules to communicate with each other and to identify their slot numbers without further switch settings.

Six different backplane models are available with 2, 3, 4, 6, 10, or 16 slots. Backplane slots are universal. In other words, any module may fit into any slot. Almost all Quantum modules are designed to fit into single slots on a Quantum backplane; the only exception is the MMS SERCOS motion module and Unity™ processors, which require two contiguous slots.

There are no slot dependencies in a Quantum system, although power supply modules should be mounted in the outermost slot positions for optimum heat dissipation. Any backplane may be used in any of the three system architectures supported by Quantum (standalone with local I/O, remote I/O or distributed I/O).

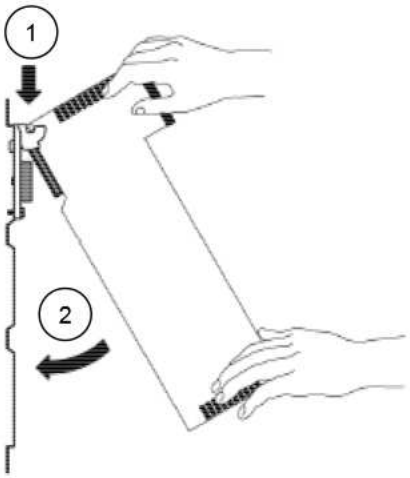
In a Quantum system, module addressing and configuration is handled by panel software. There are no DIP switches or other hardware settings.

To meet vibration/shock specifications, the backplane must be mounted using all specified mounting holes. The mounting surface should be flat to within +/- 1.0mm. The backplane is mounted using standard hardware (described below).

The recommended length for the mounting screws should be within the following range: 0.24 in (6 mm) - 0.52 in (13 mm).

The head height of the screws should not exceed 0.14 in (3.5 mm). 1/4" x 20 screws are recommended.

MOUNTING:

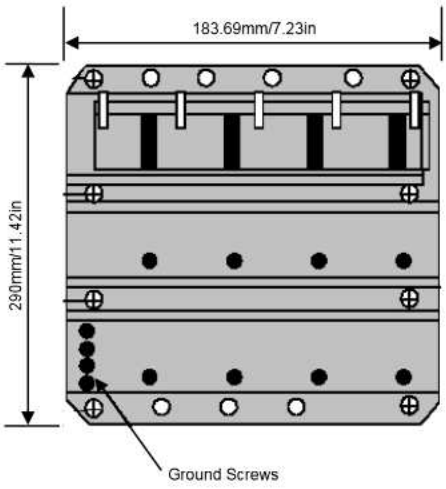


1. Mount the module at an angle on to the two hooks located near the top of the backplane.
2. Swing the module down to make an electrical connection with the backplane I/O bus connector.
3. Tighten the screw at the bottom of the module to fasten it to the backplane.

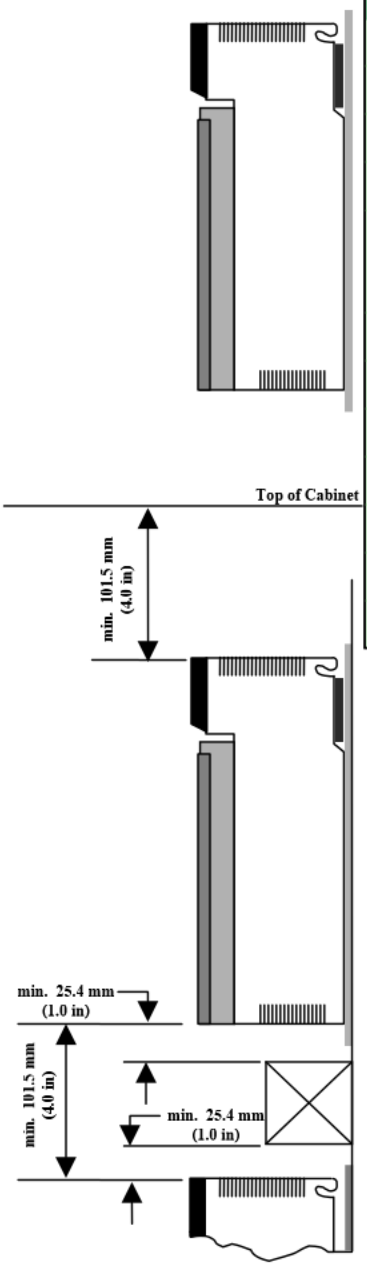
Please reference the Quantum Automation Hardware Reference Guide (840USE10000) for important installation and grounding information.

Optional rack accessories are ordered separately.

140XCP50000	Blank module without terminal block
140XCP51000	Blank module with cover



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Specifications	
Vibration	10 ... 57 Hz at 0.075 mm d.a.; 57 ... 150 Hz at 1g
Shock	+/- 15g peak, 11 ms, half-sine wave
Storage Temperature	-40 ... +85 degrees C (-40 ... 185 degrees F)
Operating Temperature	0 ... 60 degrees C (32 ... 140 degrees F)
Altitude	2000 m. When altitude exceeds 2000 m, reduce the 60 degrees C maximum operating temperature by 6 degrees C per 1000 m of additional elevation.
Relative Humidity	0 ... 95% Non-condensing @ 60 degrees C
Backplane Weight	1 lb (7.2 lb (3.27 kg) Maximum)
RFI Immunity	80 ... 1000 MHz, 10 V/m (meets IEC 1000-4-3)
Ground Continuity	2 kV shield to ground
Electrostatic Discharge	8 kV air/4kV contact (meets IEC 1000-4-2)
Agency Approvals	UL 508, CSA 22.2-142, CE, FM Class 1 Div 2
Software Support	Concept™, ProWORX®, Unity™, ProWORX® 32™

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For detailed technical documentation visit:
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