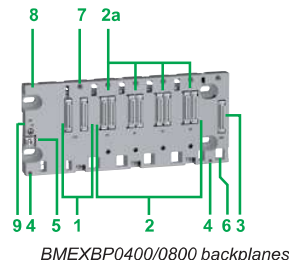


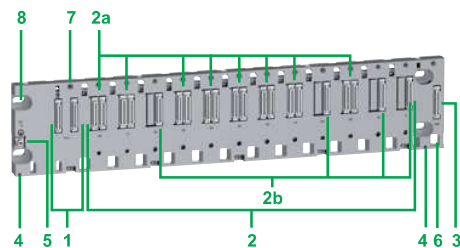
Dual Ethernet and X-bus backplanes



X-bus backplanes (1)(2)



BMEXBP0400/0800 backplanes



BMEXBP1200 backplane

Presentation

The M580 PAC is compatible with 2 types of backplane: dual Ethernet and X-bus backplanes or X-bus only backplanes (1)(2). One Ethernet switch is embedded in the backplane with connectivity to some slots on the backplane (not all slots have Ethernet connectivity).

X-bus functionality is preserved and conforms to the legacy implementation and specification. The X-bus will be used in a subset of modules on the Ethernet backplane.

The M580 backplanes supply power to all modules in the rack.

Function

The Ethernet backplane provides the following services to X-bus slots:

- rack number
- interconnection to all slots in the main and expanded backplanes

The Ethernet interface is the main communication medium in the Ethernet backplane. All Ethernet modules on the Ethernet backplane are attached to one of several ports. The modules connect to the Ethernet switch chip embedded inside the Ethernet backplane.

The Ethernet backplane provides the following services to ETH slots:

- ETH connection to ETH slots
- point-to-point connection

Description

Dual Ethernet and X-bus backplanes

The quantity of X-bus and Ethernet slots found on a backplane depends on the backplane size.

BMEXBP0400/BMEXBP0800 are 4/8-slot dual Ethernet and X-bus backplanes with:

- 1 CPS slot for power supply
- 2 4 slots (**BMEXBP0400**)/8 slots (**BMEXBP0800**) with:
- 2a 4/8 Ethernet and X-bus connectors for mixed modules
- 3 Expansion: 1 connector for an X-bus backplane expansion
- 4 2 attachment points for mounting the shielding connection bar
- 5 Grounding screw
- 6 Slots for anchoring the module pin
- 7 Tapped holes for the locking screw on each module
- 8 4 holes for M4, M5, M6, or UNC #6-32 screws (4.32 to 6.35 mm/0.170 to 0.250 in.)
- 9 Rack is fastened to 35 mm/1.38 in. wide and 15 mm/0.59 in. deep DIN rails. Mounting on a 35 mm/1.38 in. wide and 7.5 mm/0.295 in. deep DIN rail is possible (in this case, the product withstands less mechanical stress)

BMEXBP1200 is a 12-slot dual Ethernet and X-bus backplane with:

- 1 CPS slot for power supply
- 2 12 slots with:
- 2a 8 Ethernet and X-bus connectors for mixed modules
- 2b 4 X-bus connectors for X-bus modules
- 3 Expansion: 1 connector for an X-bus backplane expansion
- 4 2 attachment points for mounting the shielding connection bar
- 5 Grounding screw
- 6 Slots for anchoring the module pin
- 7 Tapped holes for the locking screw on each module
- 8 4 holes for M4, M5, M6, or UNC #6-32 screws (4.32 mm to 6.35 mm/0.170 to 0.250 in.)

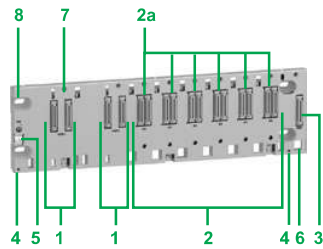
X-bus backplanes (1)(2)

Available with 4, 6, 8, and 12 slots with **BMXXBP0400/0600/0800/1200** for X-bus modules.

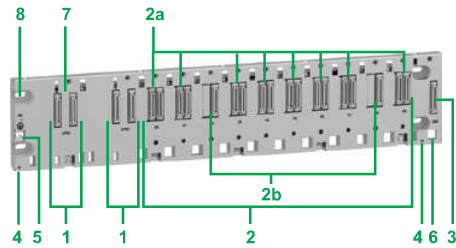
For more information, please refer to the "Modicon X80 I/O platform" catalog available on our website www.schneider-electric.com.

(1) For more information on rack, see page 1/30.

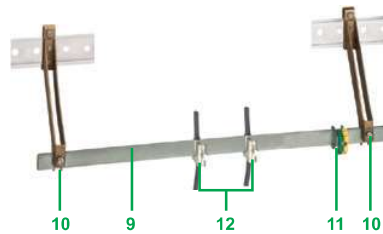
(2) Mandatory PV02 version or later.



BMEXBP0602 backplane



BMEXBP1002 backplane



BMXXSP...00 cable shielding connection kit

Description (continued)

Dual power supply backplanes

BMEXBP0602 is 6-slot dual Ethernet and X-bus backplane with:

- 1 2 CPS slots for **BMXCPS4002** redundant power supply only
- 2 6 slots with:
 - 2a 6 Ethernet and X-bus connectors for mixed modules
 - 3 Expansion: 1 connector for an X-bus backplane expansion
 - 4 2 attachment points for mounting the shielding connection bar
 - 5 Grounding screw
 - 6 Slots for anchoring the module pin
 - 7 Tapped holes for the locking screw on each module
 - 8 4 holes for M4, M5, M6, or UNC #6-32 screws (4.32 to 6.35 mm/0.170 to 0.250 in.)
- 9 Rack is fastened to 35 mm/1.38 in. wide and 15 mm/0.59 in. deep DIN rails. Mounting on a 35 mm/1.38 in. wide and 7.5 mm/0.295 in. deep DIN rail is possible (in this case, the product withstands less mechanical stress)

BMEXBP1002 is a 10-slot dual Ethernet and X-bus backplane with:

- 1 2 CPS slots for **BMXCPS4002** redundant power supply only
- 2 10 slots with:
 - 2a 8 Ethernet and X-bus connectors for mixed modules
 - 2b 2 X-bus connectors for X-bus modules
 - 3 Expansion: 1 connector for an X-bus backplane expansion
 - 4 2 attachment points for mounting the shielding connection bar
 - 5 Grounding screw
 - 6 Slots for anchoring the module pin
 - 7 Tapped holes for the locking screw on each module
 - 8 4 holes for M4, M5, M6, or UNC #6-32 screws (4.32 to 6.35 mm/0.170 to 0.250 in.)

Cable shielding connection kit

To be ordered separately:

A **BMXXSP...00** cable shielding connection kit, used to help protect against electrostatic discharge when connecting the shielding on cordsets for connecting:

- Analog, counter, and motion control modules
- Some Magelis HMI terminals (1) to the processor (via **BMXXCAUSBH0...0** shielded USB cable)

The **BMXXSP...00** shielding connection kit comprises:

- 9 Metal bar that takes the clamping rings and the earthing terminal
- 10 2 sub-bases to be mounted on the rack
- 11 Grounding terminal
- 12 Not included in the shielding connection kit, the **STBXSP30...0** clamping rings (sold in lots of 10, cross-section 1.5...6 mm²/AWG 16...10 or 5...11 mm²/AWG 10...8)

(1) Please refer to the HMI catalogs on www.schneider-electric.com.

Modicon M580 automation platform

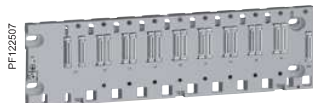
M580 backplanes

1



PF122506

BMEXBP0400



PF122507

BMEXBP0800



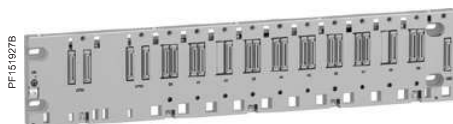
PF122508

BMEXBP1200



PF151928B

BMEXBP0602



PF151927B

BMEXBP1002

Racks (1)(2)

Description (3)	Ethernet connectors	X-bus connectors	Power consumption (4)	Reference (1)	Weight kg/lb
4-slot Ethernet + X-bus backplane	4	4	2.8 W	BMEXBP0400	0.705/ 1.554
8-slot Ethernet + X-bus backplane	8	8	3.9 W	BMEXBP0800	1.060/ 2.337
12-slot backplane (8 Ethernet + X-bus/4 X-bus)	8	12	3.9 W	BMEXBP1200	1.377/ 3.036
6-slot dual power Ethernet + X-bus backplane	6	6	3.9 W	BMEXBP0602 (5)	1.377/ 3.036
10-slot dual power backplane (8 Ethernet + X-bus/2 X-bus)	8	10	3.9 W	BMEXBP1002 (5)	1.377/ 3.036

Accessories

Description	For use with	Reference	Weight kg/lb
Shielding connection kits comprising: - 1 metal bar - 2 support sub-bases - 1 grounding terminal	BMEXBP0400, BMXXBP0400 rack	BMXXSP0400	0.280/ 0.617
	BMXXBP0600 rack	BMXXSP0600	0.310/ 0.683
	BMEXBP0800, BMXXBP0800 rack	BMXXSP0800	0.340/ 0.750
	BMEXBP1200, BMXXBP1200 rack	BMXXSP1200	0.400/ 0.882
	BMEXBP0602 rack	BMXXSP0800	0.340/ 0.750
	BMEXBP1002 rack	BMXXSP1200	0.400/ 0.882
Spring clamping rings Sold in lots of 10	Cables, cross-section 1.5...6 mm ² / AWG 16...10	STBXSP3010	0.050/ 0.110
	Cables, cross-section 5...11 mm ² / AWG 10...8	STBXSP3020	0.070/ 0.154
Protective covers (replacement parts) Sold in lots of 5	Unoccupied slots on BMXXBP●●00 rack	BMXXEM010	0.005/ 0.011

(1) In an M580 architecture, Ethernet backplanes can be used as expansion racks, but the connectors can be used only as X-Bus, not Ethernet.

(2) For multi-rack configuration, see page 1/30.

(3) Number of slots including all modules except for power supply rack expansion modules.

(4) Power consumption of anti-condensation resistor(s).

(5) Compatible with redundant power supply modules, not with standalone power supply modules.