

Modicon M580/M340 platforms and Modicon X80 modules

Product compatibility according to network architecture and platform

For safety product compatibility, please refer to [page 5](#)

Product type	Product main feature	Commercial reference (1)	Module type	Modicon M340	Modicon M580								Modicon M580/M340		
					Local rack with CPU				Modicon X80 drops on Ethernet remote I/O						
					Standalone CPU		Redundant CPU		Standalone or redundant CPU						
					X-bus backplane (2) BMXXBP●●●●	Dual X-bus and Ethernet backplane BMEXBP●●●●	X-bus backplane (2) BMXXBP●●●●	Dual X-bus and Ethernet backplane BMEXBP●●●●	X-bus backplane (2) BMXXBP●●●●		Dual X-bus and Ethernet backplane BMEXBP●●●●				
				BMXCRA31200	BMXCRA31210	BMECRA31210	BMECRA31310	BMXPRA0100							
Modicon X80 power supplies	Standalone power supply	BMXCPS2000	100...240 V ~, 20 W												
		BMXCPS2010	24 V ~, 17 W												
		BMXCPS3020 (H)	24...48 V ~, 32 W												
		BMXCPS3500 (H)	100...240 V ~, 36 W												
		BMXCPS3540T	125 V ~, 36 W												
	Redundant power supply	BMXCPS4002 (H)	100...240 V ~, 40 W												
BMXCPS4022 (H)		24...48 V ~, 40 W													
BMXCPS3522 (H)		125 V ~, 40 W													
Modicon X80 backplanes	X-bus backplane	BMXXBP0400 (H)	4 slots												
		BMXXBP0600 (H)	6 slots												
		BMXXBP0800 (H)	8 slots												
		BMXXBP1200 (H)	12 slots												
		BMXXBP1600 (H)	16 slots												
	Dual X-bus and Ethernet backplane	BMEXBP0400 (H)	4 slots												
		BMEXBP0800 (H)	8 slots												
		BMEXBP1200 (H)	12 slots												
	Dual X-bus and Ethernet backplane with power redundancy	BMEXBP0602 (H) (3)	6 slots												
		BMEXBP1002 (H) (3)	10 slots												
	Rack expansion	BMXXBE1000 (H) (4)	Expansion module												
		BMXXBE2005 (5)	Expansion kit												
Accessories	BMXXEM010 (6)	Protective cover													
Modicon X80 discrete modules	Discrete input AC	BMXDAI0805	8 inputs, 200...240 V~												
		BMXDAI0814	8 inputs, 100...120 V~												
		BMXDAI1602 (H)	16 inputs, 24 V~/~												
		BMXDAI1603 (H)	16 inputs, 48 V~												
		BMXDAI1604 (H)	16 inputs, 100...120 V~												
		BMXDAI1614 (H)	16 inputs, 100...120 V~												
		BMXDAI16142	16 inputs, 100...120 V~												
		BMXDAI1615 (H)	16 inputs, 200...240 V~												
		Discrete output AC	BMXDAO1605 (H)	16 outputs, 100...240 V~											
			BMXDAO1615 (H)	16 outputs, 24...240 V~											
	Discrete input DC	BMXDDI1602 (H)	16 inputs, 24 V ~												
		BMXDDI1603 (H)	16 inputs, 48 V ~												
		BMXDDI1604T	16 inputs, 125 V ~												
		BMXDDI3202K (H)	32 inputs, 24 V ~												
		BMXDDI3203 (H)	32 inputs, 48 V ~												
		BMXDDI3232 (H)	32 inputs, 12/24 V ~												
		BMXDDI6402K (H)	64 inputs, 24 V ~												
	Discrete mixed I/O	BMXDDM16022 (H)	8 inputs, 24 V ~; 8 outputs, 24 V ~												
		BMXDDM16025 (H)	8 inputs, 24 V ~; 8 outputs, relay 24...240 V~/24 V ~												
		BMXDDM3202K	16 inputs, 24 V ~; 16 outputs, 24 V ~												
	Discrete output DC	BMXDDO1602 (H)	16 outputs, 24 V ~												
		BMXDDO1612 (H)	16 outputs, 24 V ~ negative												
		BMXDDO3202 (H)	32 outputs, 24 V ~												
		BMXDDO3202K (C)	32 outputs, 24 V ~												
		BMXDDO6402K (C)	64 outputs, 24 V ~												
	Discrete Output Relay	BMXDRA0804T	8 outputs, 100...150 V~												
		BMXDRA0815 (H)	8 outputs, 24...240 V~/24...125 V ~												
		BMXDRA1605 (H)	16 outputs, 24...240 V~/24 V ~												
		BMXDRC0805 (H)	8 outputs, 24...240 V~/24...125 V ~												

(1) Optional versions: (C) - "Coated", (H) - "Hardened", and (T) - "Extended Temperature"
 (2) BMXXBP●●●● with PV02 or later required
 (3) Not compatible with single power supplies

Not compatible Compatible

(4) Extended rack can be on any type of backplane, but only X-bus modules (BMX) can be used
 (5) Extended rack kit
 (6) Protective cover for unoccupied slots on backplane

Modicon M580/M340 platforms and Modicon X80 modules

Product compatibility according to network architecture and platform

For safety product compatibility, please refer to [page 5](#)

Product type	Product main feature	Commercial reference (1)	Module type	Modicon M340	Modicon M580								Modicon M580/M340		
					Local rack with CPU				Modicon X80 drops on Ethernet remote I/O					Modicon X80 drops on distributed I/O	
					Standalone CPU		Redundant CPU		Standalone or redundant CPU					N/A	
					X-bus backplane (2) BMXXBP●●●●	Dual X-bus and Ethernet backplane BMEXBP●●●●	X-bus backplane (2) BMXXBP●●●●	Dual X-bus and Ethernet backplane BMEXBP●●●●	X-bus backplane (2) BMXXBP●●●●		Dual X-bus and Ethernet backplane BMEXBP●●●●			X-bus backplane BMXXBP●●●●, Dual X-bus and Ethernet backplane BMEXBP●●●●	
								BMXCRA31200	BMXCRA31210	BMECRA31210	BMECRA31310	BMXPRA0100			
Modicon X80 analog modules	Analog High-level Input	BMXAMI0410 (H)	4 voltage/current inputs												
		BMXAMI0800	8 voltage/current inputs												
		BMXAMI0810 (H)	8 voltage/current inputs												
		BMEAH0812 (H)	8 current inputs, HART												
	Analog Low-level Input	BMXART0414 (H)	4 RTD, thermocouple and voltage inputs												
		BMXART0814 (H)	8 RTD, thermocouple and voltage inputs												
	Analog Mixed I/O	BMXAMM0600 (H)	4 voltage/current inputs & 2 voltage/current outputs												
	Analog High-level Output	BMXAMO0210 (H)	2 voltage/current outputs												
		BMXAMO0410 (H)	4 voltage/current outputs												
		BMXAMO0802 (H)	8 current outputs												
BMEAHO0412 (C)		4 current outputs, HART													
Modicon X80 Expert modules	SSI encoder interface	BMXEAE0300 (H)	3 channels												
	Counter	BMXEHC0200 (H)	2 channels												
		BMXEHC0800 (H)	8 channels												
	Time Stamping	BMXERT1604T/H	16 inputs, 24...125 V ~												
	Motion Control	BMXMSP0200	2 channels												
	Frequency Input	BMXETM0200H	2 channels												
	Weighing (3)	PMESWT0100	1 channel												
Communication modules (4)	Modicon X80	BMXNOM0200 (H)	Serial link												
		BMXEIA0100	AS-Interface												
		BMECXM0100 (H)	CANopen												
		BMXNRP0200 (C)	Fiber converter, multimode												
		BMXNRP0201 (C)	Fiber converter, single mode												
		PMEPXM0100 (H)	PROFIBUS DP												
		BMENOS0300 (C)	Ethernet switch												
		Modicon M580	BMENOC0301 (C)	Ethernet											
			BMENOC0311 (C)	Ethernet FactoryCast											
			BMENOC0321 (C)	Ethernet control router											
	BMENOP0300		IEC 61850												
	BMXNGD0100		Ethernet Global Data												
	BMENUA0100 (H)		OPC UA												
	BMENOR2200H		Advanced RTU												
	BMXNOR0200H		RTU												
	Modicon M580/M340	BMXNOR0200H	RTU												
		Modicon M340	BMXNOE0100 (H)	Ethernet											
			BMXNOE0110 (H)	Ethernet FactoryCast											
		BMXNOC0401	Ethernet												
	Edge Module	Edge compute node	BMEECN0100H	Edge compute node											
Modicon X80 I/O expansion modules	RIO drop adapter	BMXCRA31200	X-bus, Standard												
		BMXCRA31210 (C)	X-bus, Performance												
		BMECRA31210 (C)	Ethernet, Performance												
		BMECRA31310 (H)	Ethernet, Performance												
	DIO drop adapter	BMXPRA0100	Peripheral												

(1) Optional versions: (C) - "Coated", (H) - "Hardened", and (T) - "Extended Temperature"

(2) BMXXBP●●●● with PV02 or later required

(3) Products by our Technology Partners; see more information on our [partner website page](#)

(4) According to the module type, the communication module description is included in the Modicon X80 catalog, Modicon M580 catalog, or Modicon M340 catalog.

Not compatible Compatible Only compatible in the standalone configuration of remote Modicon X80 drop

Modicon M580 platform and Modicon X80 modules

Safety product compatibility according to network architecture and platform

For non safety product compatibility, please refer to [page 1](#)

Product type	Product main feature	Commercial reference (1)	Module type	Modicon M580 Safety					
				Local rack with Safety CPU and coprocessor (X-bus + Ethernet backplanes BMEXBP are mandatory for Safety CPU and coprocessor)		Modicon X80 drops on Ethernet remote I/O			Modicon X80 drops on distributed I/O
				Standalone CPU	Redundant CPU (HSBY)	Standalone or redundant CPU (HSBY)			Standalone CPU
				X-bus + Ethernet backplane BMEXBP●●●●		X-bus backplane BMXXBP●●●●		X-bus + Ethernet backplane BMEXBP●●●●	
				BMXCRA31200	BMXCRA31210	BMECRA31210	BMECRA31310	BMXPRA0100	
Modicon X80 Safety power supplies	Redundant Safety power supply	BMXCPS4002S	100...240 V ~, 40 W						
		BMXCPS4022S	24...48 V ~, 40 W						
		BMXCPS3522S	100...150 V ~, 40 W						
Modicon X80 backplanes	X-bus backplane	BMXXBP0400 (H)	4 slots						
		BMXXBP0600 (H)	6 slots						
		BMXXBP0800 (H)	8 slots						
		BMXXBP1200 (H)	12 slots						
		BMXXBP1600 (H)	16 slots						
	X-bus + Ethernet backplane	BMEXBP0400 (H)	4 slots						
		BMEXBP0800 (H)	8 slots						
		BMEXBP1200 (H)	12 slots						
	X-bus + Ethernet, dual power supply backplane	BMEXBP0602 (H) (2)	6 slots						
		BMEXBP1002 (H) (2)	10 slots						
	Rack expansion	BMXXBE1000 (H)(3)	Module						
		BMXXBE2005 (4)	Kit						
	Accessories	BMXXEM010 (5)	Protective cover						
Safety I/O	Safety analog input	BMXSAI0410	4 channels						
	Safety discrete input	BMXSDI1602	16 channels						
	Safety discrete output	BMXSDO0802	8 channels						
	Safety Output Relay	BMXSRA0405	4 channels						
I/O expansion	RIO drop adapter	BMXCRA31200	X-bus, Standard						
		BMXCRA31210 (C)	X-bus, Performance						
		BMECRA31210 (C)	Ethernet, Performance						
		BMECRA31310 (H)	Ethernet, Performance						
	DIO drop adapter	BMXPRA0100	Peripheral						

(1) Optional versions: (C) - "Coated", (H) - "Hardened".
 (2) Not compatible with single power supplies.
 (3) Extended rack can be any type of rack, but only X-bus modules (BMX) can be used.
 (4) Extended rack kit.
 (5) Protective cover for unoccupied slots on backplane.

Compatible **Not compatible**

Note: All Modicon X80 Safety modules are compatible with the Modicon M580 Safety ePAC only.