

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 X80 drops on Ethernet remote I/O			Modicon M580/M340
					Local rack with CPU				Standalone or redundant CPU			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	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									
	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 X80 drops on Ethernet remote I/O			Modicon M580/M340
					Local rack with CPU				Modicon X80 drops on distributed 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	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									
		BMENOC0301 (C)	Ethernet									
	Modicon M580	BMENOC0311 (C)	Ethernet FactoryCast									
		BMENOC0321 (C)	Ethernet control router									
		BMENOP0300	IEC 61850									
		BMXNGD0100	Ethernet Global Data									
		BMENUA0100 (H)	OPC UA									
		BMENOR2200H	Advanced RTU									
	Modicon M580/M340	BMXNOR0200H	RTU									
		BMXNOE0100 (H)	Ethernet									
		BMXNOE0110 (H)	Ethernet FactoryCast									
	Modicon M340	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									
	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	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					
	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					
	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.