BMXP341000H

processor module M340 - max 512 discrete + 128 analog I/O - Modbus



Main

Range of product	Modicon M340 automation platform
Product or component type	Processor module
Product specific application	For severe environments
Number of racks	2
Number of slots	11
Discrete I/O processor capacity	512 I/O single-rack configuration
Analogue I/O processor capacity	66 I/O single-rack configuration 128 I/O multi-rack configuration
Number of application specific channel	20
Monitoring	Diagnostic counters Modbus Event counters Modbus

Complementary

Control channels	Programmable loops	
Integrated connection type	Non isolated serial link RJ45 character mode asynchronous in baseband RS232C full duplex 0.319.2 kbit/s 2 twisted shielded pairs Non isolated serial link RJ45 character mode asynchronous in baseband RS485 half duplex 0.319.2 kbit/s 1 twisted shielded pair Non isolated serial link RJ45 Modbus master/slave RTU/ASCII asynchronous in baseband RS232C half duplex 0.319.2 kbit/s 1 twisted shielded pair Non isolated serial link RJ45 Modbus master/slave RTU/ASCII asynchronous in baseband RS485 half duplex 0.319.2 kbit/s 1 twisted shielded pair USB port 12 Mbit/s	
Communication module processor	Ethernet communication module AS-Interface module	
Number of devices per segment	032 character mode 032 Modbus	
Number of devices	2 point-to-point character mode 2 point-to-point Modbus	
Bus length	010 m serial link non isolated character mode segment 010 m serial link non isolated Modbus segment 01000 m serial link isolated character mode segment 01000 m serial link isolated Modbus segment 015 m character mode point-to-point 015 m Modbus point-to-point	
Tap links length	015 m serial link non isolated character mode segment015 m serial link non isolated Modbus segment040 m serial link isolated character mode segment040 m serial link isolated Modbus segment	
Number of addresses	0248 character mode 0248 Modbus	
Requests	K data bytes per request character mode Solution So	
Control parameter	One CRC on each frame (RTU) Modbus One LRC on each frame (ASCII) character mode One LRC on each frame (ASCII) Modbus	
Memory description	2048 kB internal RAM 128 kB internal RAM for data 1792 kB internal RAM for program constants and symbols Supplied memory card (BMXRMS008MP) for backup of programs, constants, symbols and data	

Maximum size of object areas	128 kB unlocated internal data 16250 %Mi located internal bits 32464 %MWi internal words located internal data	
- C 11 1	32760 %KWi constant words located internal data	
Default size of object areas	128 %KWi constant words located internal data 256 %Mi located internal bits 512 %MWi internal words located internal data	
Application structure	1 cyclic/periodic master task 1 periodic fast task 32 event tasks No auxiliary task	
Execution time per instruction	0.18 μs Boolean 0.26 μs double-length words 0.38 μs single-length words 1.74 μs floating points	
Number of instructions per ms	4.2 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 5.4 Kinst/ms 100 % Boolean	
System overhead	0.2 ms fast task 1.05 ms master task	
Current consumption	72 mA 24 V DC	
Supply	Internal power supply via rack	
Marking	CE	
Status LED	1 LED green processor running (RUN) 1 LED red I/O module fault (I/O) 1 LED red memory card fault (CARD ERR) 1 LED red processor or system fault (ERR) 1 LED yellow activity on Modbus (SER COM)	
Product weight	0.2 kg	
Environment		
Ambient air temperature for operation	-2570 °C	
Relative humidity	1095 % without condensation	
IP degree of protection	IP20	
Protective treatment	Conformal coating Humiseal 1A33 TC	
Environmental characteristic	3C3 conforming to EN/IEC 60721-3-3 3C4 conforming to EN/IEC 60721-3-3	
Standards	CSA C22.2 No 142 EN 61131-2 IEC 61131-2 UL 508 CSA C22.2 No 213 Class I Division 2	
Offer Sustainability		
Sustainable offer status	Not Green Premium product	
- Castallidate offer states	Tot Orbeit Fremium product	
Contractual warranty		
Warranty period	18 months	

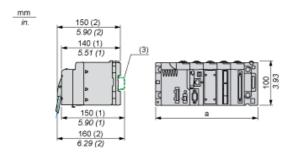


Product data sheet **Dimensions Drawings**

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Modules Mounted on Racks

Dimensions



- With removable terminal block (cage, screw or spring). With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81