

BMXP342020

processor module M340 - max 1024 discrete + 256
analog I/O - Modbus - Ethernet



Main

Range of product	Modicon M340 automation platform
Product or component type	Processor module
Concept	CANopen Transparent Ready
Number of racks	4
Number of slots	11
Discrete I/O processor capacity	1024 I/O multi-rack configuration 704 I/O single-rack configuration
Analogue I/O processor capacity	256 I/O multi-rack configuration 66 I/O single-rack configuration
Number of application specific channel	36
Monitoring	Diagnostic counters Modbus Event counters Modbus

Complementary

Control channels	Programmable loops
Integrated connection type	USB port 12 Mbit/s Non isolated serial link RJ45 character mode asynchronous in baseband RS232C full duplex 0.3...19.2 kbit/s 2 twisted shielded pairs Non isolated serial link RJ45 character mode asynchronous in baseband RS485 half duplex 0.3...19.2 kbit/s 1 twisted shielded pair Non isolated serial link RJ45 Modbus master/slave RTU/ASCII asynchronous in baseband RS232C half duplex 0.3...19.2 kbit/s 1 twisted shielded pair Non isolated serial link RJ45 Modbus master/slave RTU/ASCII asynchronous in baseband RS485 half duplex 0.3...19.2 kbit/s 1 twisted shielded pair Ethernet TCP/IP RJ45 10/100 Mbit/s 1 twisted pair
Communication module processor	2 Ethernet communication module 4 AS-Interface module
Communication service	Bandwidth management, Ethernet TCP/IP Data Editor, Ethernet TCP/IP Modbus TCP messaging, Ethernet TCP/IP Rack Viewer, Ethernet TCP/IP SNMP network administrator, Ethernet TCP/IP
Port Ethernet	10BASE-T/100BASE-TX
Number of devices per segment	0...32 character mode 0...32 Modbus
Number of devices	2 point-to-point character mode 2 point-to-point Modbus
Bus length	0...10 m serial link non isolated character mode segment 0...10 m serial link non isolated Modbus segment 0...1000 m serial link isolated character mode segment 0...1000 m serial link isolated Modbus segment 0...15 m character mode point-to-point 0...15 m Modbus point-to-point
Tap links length	0...15 m serial link non isolated character mode segment 0...15 m serial link non isolated Modbus segment 0...40 m serial link isolated character mode segment 0...40 m serial link isolated Modbus segment
Number of addresses	0...248 character mode 0...248 Modbus
Requests	1 K data bytes per request character mode 252 data bytes per RTU request Modbus 504 data bytes per ASCII request Modbus
Control parameter	One CRC on each frame (RTU) Modbus One LRC on each frame (ASCII) character mode

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

One LRC on each frame (ASCII) Modbus

Memory description	Supplied memory card (BMXRMS008MP) for activation of standard web server, class B10 Supplied memory card (BMXRMS008MP) for backup of programs, constants, symbols and data 4096 kB internal RAM 256 kB internal RAM for data 3584 kB internal RAM for program constants and symbols
Maximum size of object areas	256 kB unlocated internal data 32634 %Mi located internal bits
Default size of object areas	1024 %MWi internal words located internal data 256 %KWi constant words located internal data 512 %Mi located internal bits
Application structure	1 cyclic/periodic master task 1 periodic fast task 64 event tasks No auxiliary task
Execution time per instruction	0.12 µs Boolean 0.17 µs double-length words 0.25 µs single-length words 1.16 µs floating points
Number of instructions per ms	6.4 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 8.1 Kinst/ms 100 % Boolean
System overhead	0.13 ms fast task 0.7 ms master task
Current consumption	95 mA 24 V DC
Supply	Internal power supply via rack
Marking	CE
Status LED	1 LED green activity on Ethernet network (ETH ACT) 1 LED green processor running (RUN) 1 LED green status of Ethernet network (ETH STS) 1 LED red data rate (ETH 100) 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	0.205 kg

Environment

Ambient air temperature for operation	0...60 °C
Relative humidity	10...95 % without condensation
IP degree of protection	IP20
Protective treatment	TC
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	Green Premium product
RoHS	Compliant - since 0722 - Schneider Electric declaration of conformity
REACH	Reference contains SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations