Product data sheet
Characteristics

BMXP342020
processor, Modicon M340, max 1024 discrete, 256 analog IO, Modbus, Ethernet



Main

Range of product	Modicon M340 automation platform
Product or component type	Processor module
Concept	Transparent Ready Modbus
Number of racks	4
Discrete I/O processor capacity	1024 I/O
Analogue I/O processor capacity	256 I/O
Number of application specific channel	36
Monitoring	Diagnostic counters Modbus Event counters Modbus

Complementary

Control channels	Programmable loops
Integrated connection type	Non isolated serial link RJ45 character mode, transmission mode: asynchronous in baseband, Non isolated serial link RJ45 character mode, transmission mode: asynchronous in baseband, Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII, transmission mode: asynchro Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII, transmission mode: asynchro USB port at 12 Mbit/s Ethernet TCP/IP RJ45, transmission mode: 1 twisted pair at 10/100 Mbit/s
Communication module processor capacity	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
Maximum tap links length	<15 M serial link non isolated character mode segment <15 M serial link non isolated Modbus segment <40 M serial link isolated character mode segment <40 M serial link isolated Modbus segment
Number of addresses	0…248 for character mode 0…248 for 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 One LRC on each frame (ASCII) Modbus
Memory description	Supplied memory card (BMXRMS008MP) backup of programs, constants, symbols and data Internal RAM 4096 kB Internal RAM 256 kB data Internal RAM 3584 kB program constants and symbols Supplied memory card (BMXRMS008MP) activation of standard web server, class B10
Maximum size of object areas	32634 %Mi located internal bits 32464 %MWi internal words 32760 %KWi constant words
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 No auxiliary task 64 event tasks
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 for fast task 0.7 Ms for master task
Current consumption	95 mA at 24 V DC
Supply	Internal power supply via rack
Marking	CE UL CSA RCM EAC UKCA China RoHS WEEE IEC
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 (green) 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)
Net weight	0.205 Kg

Environment

Ambient air temperature for operation	0…60 °C
Relative humidity	5…95 % without condensation
IP degree of protection	IP20
Protective treatment	TC
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2012/19/EU - WEEE directive
Product certifications	CE[RETURN]UL[RETURN]CSA[RETURN]RCM[RETURN]EAC[RETURN]UKCA[RETURN]Mercha
Standards	IEC 61131-2 IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 61850-3, location G

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 Cm
Package 1 Width	11.000 Cm
Package 1 Length	11.500 Cm
Package 1 Weight	245.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	4.016 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	120
Package 3 Height	45.000 Cm
Package 3 Width	60.000 Cm
Package 3 Length	80.000 Cm
Package 3 Weight	42.128 Kg

Offer Sustainability

Recyclability potential, in %	32
Total lifecycle Carbon footprint	119 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	16.75490625
Carbon footprint of the manufacturing phase [A1 to A3]	17 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0321683438
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0979291406
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	101.6741818182
Carbon footprint of the use phase [B2, B3, B4, B6]	102 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.39590625
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	119
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	33f7b2ef-9e3e-4edb-8c92-6fb4f272038c
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wi
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised