Product data sheet
Characteristics

BMXP341000
processor, Modicon M340, max 512 discrete, 128 analog IO, Modbus



Main

Range of product	Modicon M340 automation platform
Product or component type	Processor module
Concept	Modbus
Number of racks	2
Discrete I/O processor capacity	512 I/O
Analogue I/O processor capacity	128 I/O
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, 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
Communication module processor capacity	2 Ethernet communication module 2 AS-Interface module
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	Internal RAM 2048 kB Internal RAM 128 kB data Internal RAM 1792 kB program constants and symbols Supplied memory card (BMXRMS008MP) backup of programs, constants, symbols and data
Maximum size of object areas	16250 %Mi located internal bits 32464 %MWi internal words located internal data 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 periodic fast task 32 event tasks 1 cyclic/periodic master task 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 for fast task 1.05 Ms for master task
Current consumption	72 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) 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)
Net weight	0.2 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	12.000 Cm
Package 1 Weight	237.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	15

Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	3.900 Kg

Offer Sustainability

Recyclability potential, in %	32
Total lifecycle Carbon footprint	94 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	16.34625
Carbon footprint of the manufacturing phase [A1 to A3]	16 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.03138375
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.095540625
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	77.0583272727
Carbon footprint of the use phase [B2, B3, B4, B6]	77 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.38625
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	94
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
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, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised