Product data sheet
Characteristics

BMXP3420302
processor, Modicon M340, max 1024 discrete, 256 analog IO, CANopen, Ethernet



Main

Range of product	Modicon M340 automation platform
Product or component type	Processor module
Concept	CANopen Transparent Ready
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

Complementary

Control channels	Programmable loops
Motion control	Independent axis CANopen
Integrated connection type	USB port at 12 Mbit/s CANopen master bus SUB-D 9, transmission mode: 2 twisted shielded pairs at 20 kbit/s...1 Mb 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	Network management (NMT) CANopen Process Data Object (PDO) CANopen Service Data Object (SDO) CANopen Special functions (SYNC, EMCY, TIME) CANopen 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
Transmission rate	1 Mbit/s 0…20 m 0…0.6 m 125 kbit/s 0…500 m 0…10 m 20 kbit/s 0…2500 m 0…300 m 250 kbit/s 0…250 m 0…10 m 50 kbit/s 0…1000 m 0…120 m 500 kbit/s 0…100 m 0…10 m 800 kbit/s 0…40 m 0…6 m
Bus type	CANopen M20 DS 301 V4.02 devices linked by daisy-chaining or tap junctions CSMA/CA CANopen M20 DS 303-2 devices linked by daisy-chaining or tap junctions CSMA/CA CANopen M20 DS 405 devices linked by daisy-chaining or tap junctions CSMA/CA
Number of server device(s)	63 CANopen
Number of devices per segment	0…16 for <205 m (CANopen) 0…32 for <185 m (CANopen) 0…64 for <160 m (CANopen)

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	135 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) integrated machine/installation bus operational (CAN RUN) 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) integrated machine/installation bus fault (CAN ERR) 1 LED (red) memory card fault (CARD ERR) 1 LED (red) processor or system fault (ERR)
Net weight	0.215 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	11.700 Cm

Package 1 Weight	249.000 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	4.109 Kg

Offer Sustainability

Recyclability potential, in %	32
Total lifecycle Carbon footprint	162 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	16.959234375
Carbon footprint of the manufacturing phase [A1 to A3]	17 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0325606406
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0991233984
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	144.4843636364
Carbon footprint of the use phase [B2, B3, B4, B6]	144 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.400734375
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	162
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