

BX-DM1E-36ER3-D Cut Sheet



BRX Do-more PLC, 12-24 VDC required, Ethernet and serial ports, microSD card slot, Discrete Input: 20-point, AC/DC, Analog Input: 4-channel, current/voltage, Discrete Output: 16-point, relay, Analog Output: 2-channel, current/voltage.

For complete product information, please see this item on our store at the following link:



<https://www.automationdirect.com/pn/BX-DM1E-36ER3-D>

Technical Specifications

Brand	BRX Do-more	Number of Isolated Discrete Input Commons	5
Item	PLC	Number of Points per Discrete Input Common	4
Total Memory	192k words	Frequency Response	250 kHz
Ladder Memory	64k words	Number of Discrete Output Points	16
User Data Memory	128k words	Nominal Output Voltage	12-48 VDC/24-240 VAC
Removable Media Type	MicroSD card slot	Discrete Output Type	Relay
Programming Language	Ladder	Relay Configuration	(16) Form A (SPST) relays
Programming Software	Do-more Designer programming software v2.0 or later	Load Current	2A/point
Communication Port and Connection Type(s)	<ul style="list-style-type: none"> • (1) Ethernet 10/100Base-T (RJ45) • (1) RS-232/RS-485 (3-pin terminal) 	Number of Isolated Discrete Output Commons	4
Port Protocol(s)	<ul style="list-style-type: none"> • MQTT Client • MQTTs Client • FTP Client • Do-more protocol • Modbus RTU Master/Slave • Modbus TCP • TCP/IP • EtherNet/IP explicit messaging scanner/adaptor • EtherNet/IP implicit messaging scanner/adaptor • Ethernet remote I/O • K-sequence Slave • webserver (non-secure HTTP) • programming and monitoring 	Number of Points per Discrete Output Common	4
Port Speed(s)	<ul style="list-style-type: none"> • 10/100 Mbps • up to 115.2k baud 	Number of Analog Input Channels	4
Real Time Clock/Calendar	Yes	Analog Input Signal Type	Current/voltage
Retentive Memory	Yes	Number of Non-Isolated Analog Input Commons	1
Battery Backup	Yes	Number of Points per Analog Input Common	4
Maximum Expansion Modules Allowed	8	Input Resolution	16-bit
External Power Requirement	12-24 VDC	Input Current Signal Range	Input current signal range(s) of 4-20 mA, +/- 20 mA
Number of Discrete Input Points	20	Input Voltage Signal Range	Input voltage signal range(s) of 0-5 VDC, 0-10 VDC, +/- 5 VDC, +/- 10 VDC
Nominal Input Voltage	12-24 VAC/VDC	Number of Analog Output Channels	2
Voltage Type	AC/DC	Analog Output Signal Type	Current/voltage
Discrete Input Type	Sinking/sourcing	Number of Non-Isolated Analog Output Commons	3
		Number of Points per Analog Output Common	2
		Output Resolution	16-bit
		Output Current Signal Range	4-20 mA and +/- 20 mA

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Output Voltage Signal Range	0-5 VDC, 0-10 VDC, +/- 5 VDC and +/- 10 VDC
Maximum Number of PID Loops	100+ (configurable to memory limit)
Number of High-Speed Capable Input Points	10
High-Speed Counter(s)	<ul style="list-style-type: none">• up to (3) up counters• up to (3) down counters• up to (3) up/down counters• up to (3) pulse/direction (bi-directional) counters• up to (3) quadrature (A and B) counters• up to (3) quadrature (A and B with Z) counters
Position Scaling	<ul style="list-style-type: none">• up to (3) up counters• up to (3) down counters• up to (3) up/down counters• up to (3) pulse/direction (bi-directional) counters• up to (3) quadrature (A and B) counters• up to (3) quadrature (A and B with Z) counters
Interval Measurement	<ul style="list-style-type: none">• up to (3) single input (edge) timers• up to (3) dual input (dual edge) timers
Duration Measurement	up to (3) single input (edge) timers
Frequency Measurement	<ul style="list-style-type: none">• up to (3) single input up counters• up to (3) single input down counters• up to (3) pulse/direction (bi-directional) counters• up to (3) quadrature input (A and B) counters• up to (3) quadrature (A and B with Z) counters• up to (3) edge timers interval scaling• up to (3) dual edge timers interval scaling
Interrupt(s)	<ul style="list-style-type: none">• up to (4) input interrupts• up to (4) timer interrupts• up to (4) match register interrupts
Includes	BX-RTB03S terminal block and D0-MC-BAT battery
Requires	BX-RTB36 or BX-RTB36-1 terminal block kit or ZIPLink pre-wired cables
Dangerous Goods	<ul style="list-style-type: none">• Battery Installed: Yes• Packaging Instructions: 970• UN Number: UN3091• Hazard Type: Lithium Batteries• Battery Type: Button• Lithium Content: 0.07• Replacement Battery: D0-MC-BAT• Generic Battery: CR2032

Agency Approvals

UL Listed File #	E185989
UL Recognized File #	None
UL Hazardous File #	None
CE	View CE declarations
CSA File #	None
RoHS Status	Yes (See CE Doc)
EU REACH	View EU REACH document

Dimensional Drawings



2D Drawing PDF Link:
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