

BX-DM1E-36ED13 Cut Sheet



BRX Do-more PLC, 120-240 VAC required, Ethernet and serial ports, microSD card slot, Discrete Input: 20-point, AC/DC, Analog Input: 4-channel, current/voltage, Discrete Output: 16-point, sinking, 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-36ED13>

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	12-24 VDC
Removable Media Type	MicroSD card slot	Discrete Output Type	Sinking
Programming Language	Ladder	Load Current	0.5A/point
Programming Software	Do-more Designer programming software v2.0 or later	Number of Isolated Discrete Output Commons	4
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 Points per Discrete Output Common	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	Maximum Switching Frequency	250 kHz
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	120-240 VAC	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
Table-Driven Input(s)	<ul style="list-style-type: none"> • up to (4) programmable limit switches • up to (4) preset tables

Number of High-Speed Capable Output Points	8
Output Pulse Mode(s)	<ul style="list-style-type: none"> • up to (4) virtual axes • up to (3) PTO linear step/direction outputs • up to (3) PTO rotary clockwise/counter-clockwise (CW/CCW) outputs • up to (3) PTO quadrature (A and B) outputs • up to (3) PWM pulse width modulation outputs
Axis Profile(s)	<ul style="list-style-type: none"> • relative/absolute positioning • velocity mode • trapezoid • S-curve • electronic gearing • camming • following • homing • jogging • linear interpolation • online edit • x-y trend view
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

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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