

# BX-DM1-36ED2 Cut Sheet



BRX Do-more PLC, 120-240 VAC required, serial port, microSD card slot, Discrete Input: 20-point, AC/DC, Discrete Output: 16-point, sourcing.

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



<https://www.automationdirect.com/pn/BX-DM1-36ED2>

## Technical Specifications

<b>Brand</b>	BRX Do-more	<b>Nominal Output Voltage</b>	12-24 VDC
<b>Item</b>	PLC	<b>Discrete Output Type</b>	Sourcing
<b>Total Memory</b>	192k words	<b>Load Current</b>	0.5A/point
<b>Ladder Memory</b>	64k words	<b>Number of Isolated Discrete Output Commons</b>	4
<b>User Data Memory</b>	128k words	<b>Number of Points per Discrete Output Common</b>	4
<b>Removable Media Type</b>	MicroSD card slot	<b>Maximum Switching Frequency</b>	250 kHz
<b>Programming Language</b>	Ladder	<b>Maximum Number of PID Loops</b>	100+ (configurable to memory limit)
<b>Programming Software</b>	Do-more Designer programming software v2.0 or later	<b>Number of High-Speed Capable Input Points</b>	10
<b>Communication Port and Connection Type(s)</b>	(1) RS-232/RS-485 (3-pin terminal)	<b>High-Speed Counter(s)</b>	<ul style="list-style-type: none"><li>• up to (3) up counters</li><li>• up to (3) down counters</li><li>• up to (3) up/down counters</li><li>• up to (3) pulse/direction (bi-directional) counters</li><li>• up to (3) quadrature (A and B) counters</li><li>• up to (3) quadrature (A and B with Z) counters</li></ul>
<b>Port Protocol(s)</b>	<ul style="list-style-type: none"><li>• Do-more protocol</li><li>• Modbus RTU Master/Slave</li><li>• ASCII In/out</li><li>• K-sequence Slave</li><li>• webserver (non-secure HTTP)</li><li>• programming and monitoring</li></ul>	<b>Position Scaling</b>	<ul style="list-style-type: none"><li>• up to (3) up counters</li><li>• up to (3) down counters</li><li>• up to (3) up/down counters</li><li>• up to (3) pulse/direction (bi-directional) counters</li><li>• up to (3) quadrature (A and B) counters</li><li>• up to (3) quadrature (A and B with Z) counters</li></ul>
<b>Port Speed(s)</b>	up to 115.2k baud	<b>Interval Measurement</b>	<ul style="list-style-type: none"><li>• up to (3) single input (edge) timers</li><li>• up to (3) dual input (dual edge) timers</li></ul>
<b>Real Time Clock/Calendar</b>	Yes	<b>Duration Measurement</b>	up to (3) single input (edge) timers
<b>Retentive Memory</b>	Yes	<b>Frequency Measurement</b>	<ul style="list-style-type: none"><li>• up to (3) single input up counters</li><li>• up to (3) single input down counters</li><li>• up to (3) pulse/direction (bi-directional) counters</li><li>• up to (3) quadrature input (A and B) counters</li><li>• up to (3) quadrature (A and B with Z) counters</li><li>• up to (3) edge timers interval scaling</li><li>• up to (3) dual edge timers interval scaling</li></ul>
<b>Battery Backup</b>	Yes	<b>Interrupt(s)</b>	<ul style="list-style-type: none"><li>• up to (4) input interrupts</li><li>• up to (4) timer interrupts</li><li>• up to (4) match register interrupts</li></ul>
<b>Maximum Expansion Modules Allowed</b>	4	<b>Table-Driven Input(s)</b>	<ul style="list-style-type: none"><li>• up to (4) programmable limit switches</li><li>• up to (4) preset tables</li></ul>
<b>External Power Requirement</b>	120-240 VAC		
<b>Number of Discrete Input Points</b>	20		
<b>Nominal Input Voltage</b>	12-24 VAC/VDC		
<b>Voltage Type</b>	AC/DC		
<b>Discrete Input Type</b>	Sinking/sourcing		
<b>Number of Isolated Discrete Input Commons</b>	5		
<b>Number of Points per Discrete Input Common</b>	4		
<b>Frequency Response</b>	250 kHz		
<b>Number of Discrete Output Points</b>	16		

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<b>Number of High-Speed Capable Output Points</b>	8
<b>Output Pulse Mode(s)</b>	<ul style="list-style-type: none"><li>• up to (4) virtual axes</li><li>• up to (3) PTO linear step/direction outputs</li><li>• up to (3) PTO rotary clockwise/counter-clockwise (CW/CCW) outputs</li><li>• up to (3) PTO quadrature (A and B) outputs</li><li>• up to (3) PWM pulse width modulation outputs</li></ul>
<b>Axis Profile(s)</b>	<ul style="list-style-type: none"><li>• relative/absolute positioning</li><li>• velocity mode</li><li>• trapezoid</li><li>• S-curve</li><li>• electronic gearing</li><li>• camming</li><li>• following</li><li>• homing</li><li>• jogging</li><li>• linear interpolation</li><li>• online edit</li><li>• x-y trend view</li></ul>
<b>Includes</b>	BX-RTB03S terminal block and D0-MC-BAT battery
<b>Requires</b>	BX-RTB36 or BX-RTB36-1 terminal block kit or ZIPLink pre-wired cables
<b>Dangerous Goods</b>	<ul style="list-style-type: none"><li>• Battery Installed: Yes</li><li>• Packaging Instructions: 970</li><li>• UN Number: UN3091</li><li>• Hazard Type: Lithium Batteries</li><li>• Battery Type: Button</li><li>• Lithium Content: 0.07</li><li>• Replacement Battery: D0-MC-BAT</li><li>• Generic Battery: CR2032</li></ul>

## Agency Approvals

<b>UL Listed File #</b>	E185989
<b>UL Recognized File #</b>	None
<b>UL Hazardous File #</b>	None
<b>CE</b>	<a href="#">View CE declarations</a>
<b>CSA File #</b>	None
<b>RoHS Status</b>	Yes (See CE Doc)
<b>EU REACH</b>	<a href="#">View EU REACH document</a>

## Dimensional Drawings



2D Drawing PDF Link:  
<https://cdn.automationdirect.com/static/drawings/BX-DM1-36ED2.pdf>  
See store item page for other formats.