

# BX-DM1E-18ED23 Cut Sheet



BRX Do-more PLC, 120-240 VAC required, Ethernet and serial ports, microSD card slot, Discrete Input: 10-point, AC/DC, Analog Input: 1-channel, current/voltage, Discrete Output: 8-point, sourcing, Analog Output: 1-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-18ED23>

## Technical Specifications

Brand	BRX Do-more	Number of Points per Discrete Input Common	5
Item	PLC	Frequency Response	250 kHz
Total Memory	192k words	Number of Discrete Output Points	8
Ladder Memory	64k words	Nominal Output Voltage	12-24 VDC
User Data Memory	128k words	Discrete Output Type	Sourcing
Removable Media Type	MicroSD card slot	Load Current	0.5A/point
Programming Language	Ladder	Number of Isolated Discrete Output Commons	2
Programming Software	Do-more Designer programming software v2.0 or later	Number of Points per Discrete Output Common	4
Communication Port and Connection Type(s)	<ul style="list-style-type: none"><li>• (1) Ethernet 10/100Base-T (RJ45)</li><li>• (1) RS-232/RS-485 (3-pin terminal)</li></ul>	Maximum Switching Frequency	250 kHz
Port Protocol(s)	<ul style="list-style-type: none"><li>• MQTT Client</li><li>• MQTTs Client</li><li>• FTP Client</li><li>• Do-more protocol</li><li>• Modbus RTU Master/Slave</li><li>• Modbus TCP</li><li>• TCP/IP</li><li>• EtherNet/IP explicit messaging scanner/adaptor</li><li>• Ethernet remote I/O</li><li>• K-sequence Slave</li><li>• programming and monitoring</li></ul>	Number of Analog Input Channels	1
Port Speed(s)	<ul style="list-style-type: none"><li>• 10/100 Mbps</li><li>• up to 115.2k baud</li></ul>	Analog Input Signal Type	Current/voltage
Real Time Clock/Calendar	Yes	Number of Non-Isolated Analog Input Commons	1
Retentive Memory	Yes	Number of Points per Analog Input Common	1
Battery Backup	Yes	Input Resolution	16-bit
Maximum Expansion Modules Allowed	8	Input Current Signal Range	4-20 mA, +/- 20 mA
External Power Requirement	120-240 VAC	Input Voltage Signal Range	0-5 VDC, 0-10 VDC, +/- 5 VDC, +/- 10 VDC
Number of Discrete Input Points	10	Number of Analog Output Channels	1
Nominal Input Voltage	12-24 VAC/VDC	Analog Output Signal Type	Current/voltage
Voltage Type	AC/DC	Number of Non-Isolated Analog Output Commons	1
Discrete Input Type	Sinking/sourcing	Number of Points per Analog Output Common	1
Number of Isolated Discrete Input Commons	2	Output Resolution	16-bit
		Output Current Signal Range	4-20 mA and +/- 20 mA
		Output Voltage Signal Range	0-5 VDC, 0-10 VDC, +/- 5 VDC and +/- 10 VDC

# BX-DM1E-18ED23 Cut Sheet

<b>Maximum Number of PID Loops</b>	100+ (configurable to memory limit)
<b>Number of High-Speed Capable Input Points</b>	10
<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>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>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>Duration Measurement</b>	up to (3) single input (edge) timers
<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>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>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>Number of High-Speed Capable Output Points</b>	4
<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 (2) PTO rotary clockwise/counter-clockwise (CW/CCW) outputs</li> <li>• up to (2) 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-RTB18 or BX-RTB18-1 terminal block kit or ZIPLink pre-wired cables

# BX-DM1E-18ED23 Cut Sheet

---

## 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>