

BX-DM1-18ED1 Cut Sheet



BRX Do-more PLC, 120-240 VAC required, serial port, microSD card slot, Discrete Input: 10-point, AC/DC, Discrete Output: 8-point, sinking.

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



<https://www.automationdirect.com/pn/BX-DM1-18ED1>

Technical Specifications

Brand	BRX Do-more	Nominal Output Voltage	12-24 VDC
Item	PLC	Discrete Output Type	Sinking
Total Memory	192k words	Load Current	0.5A/point
Ladder Memory	64k words	Number of Isolated Discrete Output Commons	2
User Data Memory	128k words	Number of Points per Discrete Output Common	4
Removable Media Type	MicroSD card slot	Maximum Switching Frequency	250 kHz
Programming Language	Ladder	Maximum Number of PID Loops	100+ (configurable to memory limit)
Programming Software	Do-more Designer programming software v2.0 or later	Number of High-Speed Capable Input Points	10
Communication Port and Connection Type(s)	(1) RS-232/RS-485 (3-pin terminal)	High-Speed Counter(s)	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
Port Protocol(s)	<ul style="list-style-type: none">• Do-more protocol• Modbus RTU Master/Slave• ASCII In/out• K-sequence Slave• programming and monitoring	Position Scaling	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
Port Speed(s)	up to 115.2k baud	Interval Measurement	up to (3) single input (edge) timers, up to (3) dual input (dual edge) timers
Real Time Clock/Calendar	Yes	Duration Measurement	up to (3) single input (edge) timers
Retentive Memory	Yes	Frequency Measurement	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
Battery Backup	Yes	Interrupt(s)	up to (4) input interrupts, up to (4) timer interrupts, up to (4) match register interrupts
Maximum Expansion Modules Allowed	4		
External Power Requirement	120-240 VAC		
Number of Discrete Input Points	10		
Nominal Input Voltage	12-24 VAC/VDC		
Voltage Type	AC/DC		
Discrete Input Type	Sinking/sourcing		
Number of Isolated Discrete Input Commons	2		
Number of Points per Discrete Input Common	5		
Frequency Response	250 kHz		
Number of Discrete Output Points	8		

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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	4
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 (2) PTO rotary clockwise/counter-clockwise (CW/CCW) outputs• up to (2) 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

Includes	BX-RTB03S terminal block and D0-MC-BAT battery
Requires	BX-RTB18 or BX-RTB18-1 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