

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

Brand	BRX Do-more
Item	PLC
Total Memory	192k words
Ladder Memory	64k words
User Data Memory	128k words
Removable Media Type	MicroSD card slot
Programming Language	Ladder
Programming Software	Do-more Designer programming software v2.0 or later
Communication Port and Connection Type(s)	(1) RS-232/RS-485 (3-pin terminal)
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
Port Speed(s)	up to 115.2k baud
Real Time Clock/Calendar	Yes
Retentive Memory	Yes
Battery Backup	Yes
Maximum Expansion Modules Allowed	4
External Power Requirement	120-240 VAC
Number of Discrete Input Points	20
Nominal Input Voltage	12-24 VAC/VDC
Voltage Type	AC/DC
Discrete Input Type	Sinking/sourcing
Number of Isolated Discrete Input Commons	5
Number of Points per Discrete Input Common	4
Frequency Response	250 kHz
Number of Discrete Output Points	16

Nominal Output Voltage	12-24 VDC
Discrete Output Type	Sourcing
Load Current	0.5A/point
Number of Isolated Discrete Output Commons	4
Number of Points per Discrete Output Common	4
Maximum Switching Frequency	250 kHz
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

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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	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

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