BX-DM1E-36ED13 Cut Sheet

AUTOMATIONDIRECT
www.automationdirect.com

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
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) Ethernet 10/100Base-T (RJ45) • (1) RS-232/RS-485 (3-pin terminal)
Port Protocol(s)	• MQTT Client • MQTTs Client • FTP Client • Do-more protocol • Modbus RTU Master/Slave • Modbus TCP • TCP/IP • EtherNet/IP explicit messaging scanner/adapter • Ethernet remote I/O • K-sequence Slave • programming and monitoring
Port Speed(s)	• 10/100 Mbps • up to 115.2k baud
Real Time Clock/Calendar	Yes
Retentive Memory	Yes
Battery Backup	Yes
Maximum Expansion Modules Allowed	8
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	Sinking
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
Number of Analog Input Channels	4
Analog Input Signal Type	Current/voltage
Number of Non-Isolated Analog Input Commons	1
Number of Points per Analog Input Common	4
Input Resolution	16-bit
Input Current Signal Range	4-20 mA, +/- 20 mA
Input Voltage Signal Range	0-5 VDC, 0-10 VDC, +/- 5 VDC, +/- 10 VDC
Number of Analog Output Channels	2
Analog Output Signal Type	Current/voltage
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
Output Voltage Signal Range	0-5 VDC, 0-10 VDC, +/- 5 VDC and +/- 10 VDC

BX-DM1E-36ED13 Cut Sheet

Maximum Number of PID Loops	100+ (configurable to memory limit)
Number of High-Speed Capable Input Points	10
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
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
Interval Measurement	• 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	• 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)	• up to (4) input interrupts • up to (4) timer interrupts • up to (4) match register interrupts
Table-Driven Input(s)	• up to (4) programmable limit switches • up to (4) preset tables
Number of High-Speed Capable Output Points	8
Output Pulse Mode(s)	• 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)	• 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