#### **Built-in RS-232/485 Port Specifications** Port Name RS-232/RS-485 Serial Port Non-isolated serial port that can communicate via RS-232 or RS-485 (software selectable). Includes Description\* ESD protection and built-in surge protection. Do-more Protocol (Default) Modbus RTU (Master & Slave) Supported Protocols K-Sequence (Slave) ASCII (In & Out) 1200, 2400, 4800, 9600, 19200, 38400, 57600, and Data Rates 115200 RS-232, 115200 bps, No Parity, 8 Data Bits, 1 Stop **Default Settings** Bit. Station #1 Port Type 3-pin terminal strip 3.5mm pitch Green LED is illuminated when active for TXD and Port Status LED RXD RS-485 Station Addresses 1-247 RS-232 use L19772-XXX from AutomationDirect.com Cable Recommendations RS-485 use L19827-XXX from AutomationDirect.com Replacement Connector ADC Part # BX-RTB03S Pinout RS232 RS485 GND **GND** GND 1 2 RX D-TX/D+ 3 ΤX D+ Removable connector included

* NOTE: When using RS-485	, a terminator resistor is built-in and software selectable	
NOTE. WHEN using No"400,	, a terrimator resistor is built-in and software selectable	

CPU Mode Switch Functions			
RUN position	CPU is forced into RUN Mode if no errors are encountered.		
TERM position	RUN, PROGRAM and DEBUG modes are available. In this position, the mode of operation can be changed through the Do-more Designer Software.		
STOP position	CPU is forced into STOP Mode.		

microSD Specifications				
Port Name	microSD Card Slot			
Description	Standard microSD socket for data logging / file management			
Maximum Card Capacity	32GB			
Transfer Rate (ADATA microSDHC Class 4 memory card)	Mbps	Minimum	Typical	Maximum
	Read	14.3	14.4	14.6
	Write	4.8	4.9	5.1
Port Status LED	Green LED is illuminated when card is inserted/detected			
Optional microSD Card	ADC Part # MICSD-16G			

Ethernet Specifications			
Port Name	ETHERNET		
Description	Standard transformer isolated Ethernet port with built-in surge protection.		
Transfer Rate	10Mbps (Yello	ow LED) and 100Mbps (Green LED)	
Port Status LED	LED is solid when network LINK is established. LED flashes when port is active (ACT).		
Supported Protocols	Do-more! Protocol Ethernet Remote I/O Modbus TCP/IP (Client & Server) EtherNet/IP (Explicit Messaging) HOST ECOM (DirectLogic), HTTP SMTP (Email), SNTP (Time Server) TCP/IP, UDP/IP (Raw packet) MQTT		
Cable Recommendation	C5E-STxxx-xx from AutomationDirect.com		
Port Type	RJ45, Category 5, 10/100 BASE-T, Auto Crossover		
Ethernet Port Numbers: MODBUS TCP/IP EtherNet/IP (Explicit Messaging) HOST ECOM Do-more Protocol		502, TCP 44818, TCP 28784, UDP 28784, UDP	

# **VAUTOMATION DIRECT**





## **BX-DM1E-M**

# BRX MPU with Do-more! DM1 technology

120 VAC required, serial port, Ethernet port, microSD slot, no on-board I/O.



**WARNING:** To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

This publication is based on information that was available at the time it was printed. At AutomationDirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without any obligation. This publication may also discuss features that may not be available in certain revisions of the product.

Do-more! BRX Manual available at www.automationdirect.com/pn/doc/manual/BX-DM1E-M



### IMPORTANT!

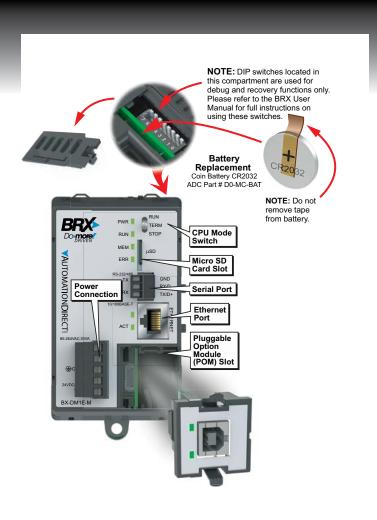


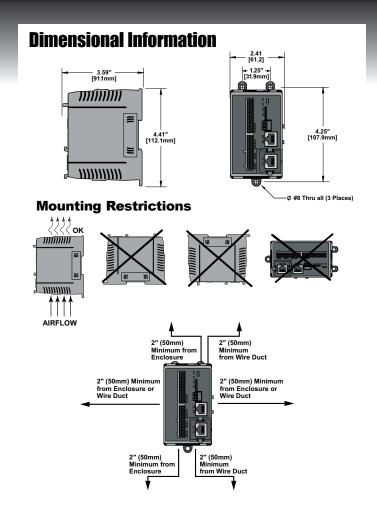
Hot-Swapping Information

Note: This device cannot be Hot Swapped.

Document Name	Edition/Revision	Date
BX-DM1E-M	1st Ed. RevD	9/8/2021

Copyright 2019, AutomationDirect.com Incorporated/All Rights Reserved Worldwide.





General Specifications			
Operating Temperature	0° to 60°C (32° to 140°F)		
Storage Temperature	-20° to 85°C (-4° to 185°F)		
Humidity	5 to 95% (non-condensing)		
Environmental Air	No corrosive gases permitted		
Vibration	IEC60068-2-6 (Test Fc)		
Shock	IEC60068-2-27 (Test Ea)		
Enclosure Type	Open Equipment		
	UL61010-2 - UL File # E185989 Canada and USA		
Agency Approvals	CE Compliant EN61131-2*		
Noise Immunity	NEMA ICS3-304		
EU Directive	See the "EU Directive" topic in the Help File		
Weight	202g (7.1 oz)		

*Meets EMC and Safety requirements. See the D.O.C. for details.				
Power Supply Spec	ifications			
Nominal Voltage Range	120-240 VAC			
Input Voltage Range (Tolerance)	85-264 VAC			
Rated Operating Frequency	47–63 Hz			
Maximum Input Power	40VA			
Cold Start Inrush Current	1.5A, 2ms			
Maximum Inrush Current (Hot Start)	1.5A, 2ms			
Internal Input Fuse Protection	Micro fuse 250V, 2A Non-	replaceat	ole	
Heat Dissipation	8W Max			
Isolated User 24VDC Output	24VDC @ 0.3A max, <1V self-resetting short circuit			
Voltage Withstand (dielectric)	1500VAC Power Inputs to 1500VAC Ground to 24VI		• •	
Replacement Connector	ADC Part # BX-RTB05			
Removable Connector Included		Pinout  1  2  3  4  5	Connection L N GND V- V+	

<b>Terminal Block Connector Specifications</b>				
Part Number	BX-RTB03S	BX-RTB5	BX-RTB5-1	
Connector Type	Screw Type-90°	Screw Type-90°	Spring Clamp Type-180°	
Wire Exit	180°	180°	180°	
Pitch	3.5mm	5.0mm	5.0mm	
Screw Size	M2	M2.5	N/A	
Recommended Screw torque	<1.77Lb-in (0.2 N-m)	< 3.98 Lb-in (0.45 N-m)	N/A	
Screwdriver Blade Width	2.5mm	3.5mm	3.5mm	
Wire Gauge (Single Wire)	28-16 AWG	28-12 AWG	28-14 AWG	
Wire Gauge (Two Wires)	28-16 AWG	28-16 AWG	28-16 AWG (Dual Wire Ferrule Required)	
Wire Strip Length	0.24in (6mm)	0.3in (7.5mm)	0.37in (9.5mm)	
Equiv. Dinkle part #	EC350V-03P-BK	5ESDV-05P-BK	5ESDSR-05P-BK	