## **BX 10/10E MPUs**

#### BX-DM1E-10ER3-D \$397.00

#### BRX MPU with Do-more! DM1 technology

- 24VDC required; serial port; Ethernet port; microSD slot
- Discrete input: 6-point, sink/source
- Analog input: 1-channel, current / voltage
- Discrete output: 4-point, relay
- · Analog output: 1-channel, current / voltage

CPU Specifications			
Program Memory Type FLASH memory			
User Data Memory Type	Battery-backed RAM, user configurable		
Serial Port	RS-232/485 3-Pin, Software selectable		
Ethernet Port	RJ-45, 10/100 Mbps		
Pluggable Option Module	RS-232, RS-485, Ethernet 10/100 BASE-T (1 Mbps throughput max), USB 2.0 Type B		
Data Logging/File Management	microSD card slot (32G max)		
Expansion Modules	2 expansion modules max		
Real Time Clock Accuracy	±2.6 s per day typical at 25°C ±8s per day max at 60°C		
Programming Software	Do-more! Designer – Ver. 2.0 or higher		
Programming Cable Options	BX-PGM-CBL		
MPU Weight	190g (6.7 oz)		

Discrete Input Specifications			
Input Type	Sink/Source		
Total Inputs per Module	6 High Speed * * All inputs may be used as standard inputs.		
Commons	2 (3 points/common) Isolated		
Nominal Voltage Rating	12-24 VAC/DC		
Input Voltage Range	9–30 VAC/DC		
Maximum Voltage 30 VAC/DC			
DC Frequency	0–250kHz - High Speed		
Minimum Pulse Width	0.5 μs - High Speed		
AC Frequency	47–63 Hz (60–240Hz filter must be set in software for AC operation)		
Input Impedance	3kΩ @ 24VDC		
Input Current (typical)	6mA @ 24 VAC/DC		
Maximum Input Current	12mA @ 30 VAC/DC		
Maximum OFF Current	2.0 mA		
ON Voltage Level	> 9.0 VAC/VDC		
OFF Voltage Level	< 2.0 VAC/VDC		
Status Indicators	Logic Side, Green		

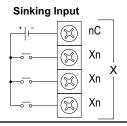
2	S SHAPE		Contract of		
					100
	10-36VDC 25VA	-		RUN	1
	⊕GND	- 10	PWR	TERM	
	PWR IN-	n n	RUN	STOP	
	PWR IN+	4		PDV	
	1C	n n	MEM	DITA	
10-	WX0	- 10	ERR	Do more/	
PIN	WY0	0 0 0	DO 0001405	μSD	
	1C	- 10	RS-232/485	GND	
HSI —	X0	- 1	TX	RX/D-	II.
HSI —	X1	- 1	RX =	TX/D+	
HSI -	X2	- "	10/100	TAID!	
			10/100 BASE-T	П	
	12C		LNK	ETHERNET	
HSI —	X3		ACT	<b>7</b>	lin.
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HSI	X5 X5	0 0 0		-	
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	YO	- 10			
	Y1	- 10	3		
	2C	- 10			в.
10- PIN	Y2	- 10			
1	Y3	- 10	3		
	BX-DM1E-1	0ER3-D		_	
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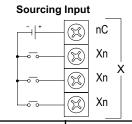
I/O Terminal Blocks sold separately.
(See Removable Terminal Block Specifications Table on BX 10/10E MPU Accessories page.)

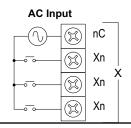
Discrete Outpu	Discrete Output Specifications			
Output Type Relay Form A (SPST)				
Total Outputs per Module	4 Relay			
Commons	2 (2 points/common) Isolated			
Maximum current per common	4A			
Nominal Voltage Ratings	12-48 VDC, 24-240 VAC			
Operating Voltage Range	5-60 VDC, 5-264 VAC			
Maximum Voltage	60VDC, 264VAC			
Minimum Output Current	0.1 mA @ 24VAC/DC			
Maximum Output Current	2A			
Maximum Leakage Current	1uA (DC) 300uA (AC) due to RC Snubber Circuit			
Maximum Switching Frequency	10Hz			
Status Indicators	Logic Side, Green			

### I/O Wiring

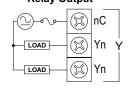
Discrete Input Wiring



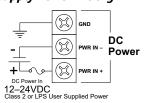




## Discrete Output Wiring Relay Output



#### **Supply Power Wiring**



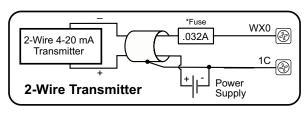
**BRX - Programmable Controller** 

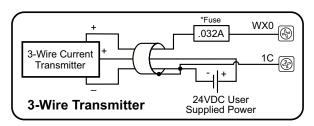
## **BX 10/10E MPUs**

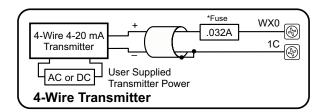
Analog Input Specifications			
Inputs per Module	1		
Input Voltage Range	Software Selectable ±10V, ±5V, 0–10 V, 0–5 V		
Input Current Range	Software Selectable ±20mA, 4–20 mA		
Resolution	16 bit @ ± 10V, ± 20mA		
Conversion Time	1.2 ms		
Input Impedance Voltage Modes	100kΩ		
Input Impedance Current Modes	249Ω		

Analog Output Specifications			
Outputs per Module		1	
Output Voltage Range	Software Selectable	±10V, ±5V, 0–10 V, 0–5 V	
Minimum Voltage Load Impedance		1kΩ	
Output Current Range	Software Selec	table ±20mA, 4–20 mA	
Maximum Current Load Impedance	500Ω		
Conversion Time	< 1ms		
Resolution	16 bit @ ± 10V, ± 20mA		

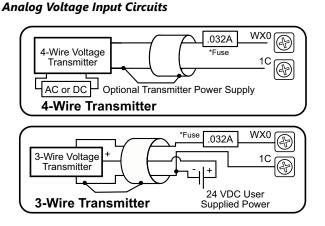
#### **Analog Current Sinking Input Circuits**







\*NOTE: An Edison S500-32-R 0.032A fast-acting fuse is recommended for all analog voltage inputs, analog outputs, and current loops.

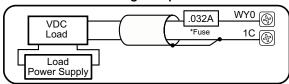


#### **Analog Output Wiring**

mA Load

## Current Source Output .032A WY0 \*Fuse 1C

#### **Voltage Output**

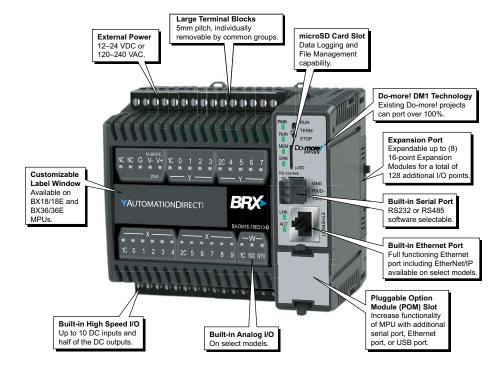


### **BRX Micro PLC Overview**

The BRX platform enables you to choose from various communications ports. All BRX MPU models have a built-in RS232C/485 (software-selectable) serial port. However, an RJ45 Ethernet port (10/100 Mbps) is provided on select units. With support for EtherNet/IP, Modbus TCP, Modbus RTU, ASCII, K-sequence (DirectLOGIC users) and custom protocols, the BRX MPU platform provides supreme

versatility for any application. BRX hardware is built to last and is engineered, assembled and supported right here in America; designed and fabricated by industrial automation veterans with hardware facilities in Tennessee and Florida. The compact modular architecture results in an outstanding controller package, with high performance, a small footprint, at a very low cost. The BRX

platform has built-in high-speed I/O, motion control, on-board analog I/O, and many other features that enable you to build the ideal controller for your application. Below is a quick look at some of the standard features available on the BRX Platform.



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		
Agonov Annrovolo	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		

<sup>\*</sup>Meets EMC and Safety requirements. See the D.O.C. for details.



**2 Year Warranty**All BRX PLCs are covered under a 2- year warranty.

## **BRX Micro PLC Overview**

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

Removable connector included.





Pinout	RS232	RS485
1	GND	GND
2	RXD	D-
3	TXD	D+

\*When using RS-485 a termination resistor is available and is software selectable.

CPU Status Indicators		
Indicator	Status	Description
	OFF	Base Power OFF
PWR	Green	Base Power ON
	Yellow	Low Battery
	OFF	CPU is in STOP Mode
RUN	Green	CPU is in RUN Mode
	Yellow	Forces are Active
	OFF	No ROM Activity, No SD Card
МЕМ	Yellow	ROM Activity (Flash or SD Card)
INIEINI	Green	SD Card Installed and Mounted
	Red	SD Card Installed and Not Mounted
ERR	OFF	CPU is functioning normally
EKK	Red	CPU Fatal Hardware Error or Software Watchdog Error

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



microSD Specifications					
Port Name	microSD	microSD Card Slot			
Description	Standard microSD socket for data logging or file read/write				
Maximum Card Capacity	32GB				
Transfer Rate	Mbps	Minimum	Typical	Maximum	
(ADATA microSDHC	Read	14.3	14.4	14.6	
Class 4 memory card)	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				



SD
DAT2
CD/DAT3
CMD
VDD
CLK
VSS
DAT0
DAT1

AC Power Supply Specifications				
Nominal Voltage Rating	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-replaceable			
Isolated User 24VDC Output	24VDC @ 0.3 A max, <1V P-P Ripple, Integrated self-resetting short circuit protection			
Voltage Withstand (dielectric)	1500VAC Power Inputs to Ground applied for 1 minute 1500VAC Ground to 24VDC applied for 1 minute			

DC Power Supply Specifications				
Nominal Voltage Rating	12-24 VDC			
Input Voltage Range (Tolerance)	10-36 VDC			
Maximum Input Voltage Ripple	<± 10%			
Maximum Input Power	30W (14W for BX 10/10E MPUs)			
Cold Start Inrush Current	5A, 2ms			
Maximum Inrush Current (Hot Start)	5A, 2ms			
Internal Input Protection	Reverse Polarity Protection and Undervoltage			
Voltage Withstand (dielectric)	1500VAC Power Inputs to Ground applied for 1 minute			

## **BX 10E MPUs**

#### 10 Discrete I/O Points: 6 Inputs, 4 Outputs

#### **Features**

- All units are externally powered by a nominal 12-24 VDC
- All units have a built-in RJ-45 Ethernet port, 10/100 Mbps
- Models with DC inputs have:
- 6 high speed inputs up to 250kHz
- can accept 12-24 nominal voltages AC or DC
- can be wired as sinking or sourcing
- Models with AC inputs can accept 120-240 nominal voltages
- All units have 1 analog input (current/voltage software selectable)
- Output types available are DC sinking, DC sourcing, and relay
- Models with DC outputs have 2 high speed outputs up to 250kHz
- Support for 2 additional expansion modules
- Onboard RS-232/485 port with removable 3-Pin connector
- · microSD card slot





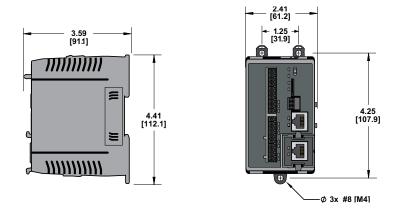
BX 10E Micro PLC Unit (MPU)
(Built-in Analog and Ethernet port)

BX 10E MPUs								
Part Number	lumber Price External Power Discrete Inputs		Discrete Output	Ana	alog	Expansion		
rait Nullibel	FIICE	External Fuwer	Discrete Iliputs	Discrete Output	Input	Output	Modules	
BX-DM1E-10ED13-D	\$382.00			2 High-Speed 2 Standard DC Sinking				
BX-DM1E-10ED23-D	\$381.00		6 High-Speed, Sinking or Sourcing	2 High-Speed 2 Standard DC Sourcing	1 Current	1 Current		
BX-DM1E-10ER3-D	\$397.00					4 Form A Dolou	or Voltage	or Voltage
BX-DM1E-10AR3-D	\$389.00		6 Standard AC	4 Form A Relay				

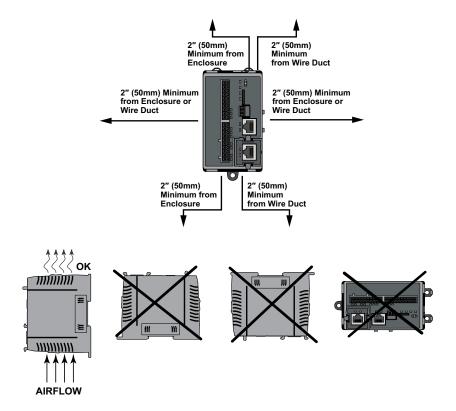
Port Name	ETHERNET			
Description	Standard transformer isolated Ethernet port with built-in surge protection.			
Transfer Rate	10 Mbps (Yellow LED) and 100 Mbps (Green LED)			
Port Status LED	LED is solid when network LINK is established. LED flash	nes when port is active (ACT).		
		Port:		
	Do-more! Protocol	28784, UDP		
	Modbus TCP	502, TCP		
	TCP/IP	User-defined, TCP		
	Custom Protocol	User-defined		
	SNTP (Time Server)	123, TCP		
	SMTP (Email)	25, TCP		
Supported Brotocolo	MQTT	1883, TCP		
Supported Protocols	MQTTS	8883, TCP		
	HTTP	80, TCP		
	HTTPS	443, TCP		
	FTP (Client)	21, TCP		
	EtherNet/IP: Explicit (Client, Server), Implicit (Server)	44818, TCP		
	DHCP	67,68, UCP		
	Ethernet Remote I/O	28784, UDP		
	programming and monitoring			
Cable Recommendation	C5E-STxxx-xx from AutomationDirect.com	·		
Port Type	RJ45, Category 5, 10/100 BASE-T, Auto Crossover			

## **BX 10/10E MPUs**

#### Dimensions, inches[mm]



#### **Clearances and Mounting Restrictions**



## **BX 10/10E MPUs Accessories**

#### **BX 10/10E MPU Wiring Termination Selection**

The BX 10/10E MPUs ship without wiring terminals. This enables you to select the termination solution that best fits your

application. Several wiring options are available, including removable screw terminal connectors,

removable spring clamp terminal connectors and prewired **ZIP**Link cable solutions.

#### **Terminal Block Connectors**

The terminal block connectors are provided in kits and can be easily ordered as a single part number to receive all the terminal block connectors needed. Each

kit for the BX 10/10E MPU comes with two (2) 10-pin 3.8 mm terminal blocks. On the BX 10/10E MPUs the terminals are organized into groups consisting of 3 inputs with an isolated common and 2 outputs with an isolated common. For example, inputs X0-X2 are in a group with their common terminal.

#### BX-RTB10 Screw Terminal Block Kit

This terminal block kit includes 2 10-pin 3.8 mm terminal blocks (<u>BX-RTB10</u>), These are 90-degree screw terminal blocks. Wire is 180-degree pass through.



**BX-RTB10** 

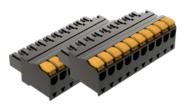
## Terminal Block Kit

BX-RTB10-2 Screw

This terminal block kit includes (2) 10-pin 3.8 mm terminal blocks (BX-RTB10-2), These are 180-degree screw terminal blocks. Wire is 180-degree pass through.



This terminal block kit includes 2 10-pin 3.8 mm terminal blocks (BX-RTB10-1), These are 90-degree screw terminal blocks. Wire is 180-degree pass through.



**BX-RTB10-1** 



Removable Terminal Block Specifications						
Part Number	BX-RTB10	<u>BX-RTB10-1</u>	<u>BX-RTB10-2</u>			
Price (pkg)	\$18.50	\$21.00	\$19.00			
Connector Type	Screw Type-90-degree	Spring Clamp Type-180-degree	Screw Type-180-degree			
Wire Exit	180-degree	180-degree	180-degree			
Pitch	3.81 mm	3.81 mm 3.81 mm				
Screw Size	M2	N/A	M2			
Recommended Screw Torque	<1.77 lb·in (0.2 N·m)	N/A <1.77 lt (0.2 N-				
Screwdriver Blade Width	2.5 mm	2.5 mm 2.5 mm				
Wire Gauge (Single Wire)	28–16 AWG	28–18 AWG 30–16 AW				
Wire Gauge (Dual Wire)	28–16 AWG	30–20 AWG (Dual Wire Ferrule Required) 30–18 AW				
Wire Strip Length	0.24 in (6mm)	0.35 in (9mm)	0.26 in (6.5 mm)			
Equiv. Dinkle part #	EC381V-10P-BK	EC381V-10P-BK ESC381V-10-BK EC381F-10P-BK				



## Wiring Solutions

#### **ZIP**Link Pre-Wired Cable Solutions

**ZIP**Links eliminate the normally tedious process of wiring between devices by utilizing prewired cables and DIN-rail mount connector modules. It's as simple as plugging in a cable connector at either end or terminating wires at only one end. Prewired cables keep installation clean and efficient, using less space at a fraction of the cost of standard terminal blocks. **ZIP**Link prewired cables can connect

directly to a **ZIP**Link remote terminal block module, or with the pigtail option they can allow for a convenient solution to wire the BRX platform to third-party devices. For the BX 10/10E MPUs, one cable and one feedthrough module is needed to connect to all the onboard wiring termination points.

Two feedthrough module options are available, the <u>ZL-RTB20</u> and the <u>ZL-RTB20-1</u>. The <u>ZL-RTB20</u> is a standard feedthrough terminal module and the <u>ZL-RTB20-1</u> is a compact feedthrough terminal block module having a compact footprint taking up less space in the control cabinet.

	BX 10/10E ZIPLink Selector					
MPU Part Number	Component Type	Module Part Number	Cable Part Number*	Max Quantity Needed		
BX-DM1-10ED1-D						
BX-DM1-10ED2-D						
BX-DM1-10ER-D**		ZL-RTB20				
<u>BX-DM1-10AR-D</u> **	Ecodthrough	(Standard) OR	ZL-BX-CBL20 ZL-BX-CBL20-1	1		
BX-DM1E-10ED13-D	Feedthrough	ZL-RTB20-1	ZL-BX-CBL20-1 ZL-BX-CBL20-2	'		
BX-DM1E-10ED23-D		(Compact)				
BX-DM1E-10ER3-D**						
BX-DM1E-10AR3-D**						

Select the cable length: Blank = 0.5 m, -1 = 1.0 m, -2 = 2.0 m. Available pigtail cables: ZL-BX-CBL20-1P = 1.0 m, ZL-BX-CBL20-2P = 2.0 m.

<sup>\*\*</sup> The relay outputs are derated not to exceed 2A per common when used with the ZIPLink wiring system.

## **Wiring Solutions**

#### **ZIP**Link Pre-wired Cables

Custom molded **ZIP**Link prewired cables allow for fast and easy connection of field wiring to the BRX platform. The prewired

cable is 0.5 meter in length. Pigtail cables are used to connect the BRX platform directly to third-party devices, reducing

your wiring time and cost. The pigtail cable is 1 meter in length.





Pre-wired ZIPLink Cable

ZIPLink Pigtail Cable

#### **ZIP**Link Remote Feedthrough Modules

Remote feedthrough modules provide low-cost and compact field wiring screw termination solutions for quickly connecting with the BRX platform. Two (2) modules are available for use with the BRX platform, the <u>ZL-RTB20</u> and the <u>ZL-RTB20-1</u>. The <u>ZL-RTB20</u> is a standard 2-row, 20-pin, DIN-rail mountable feedthrough module. The <u>ZL-RTB20-1</u> is a compact 3-row, 24-pin, DIN-rail mountable feedthrough module with a smaller footprint design.

ZIPLink Module Specifications					
Part Number	ZL-RTB20 ZL-RTB20-1 (Maximum of 4 needed) (Maximum of 4 needed)				
Number of positions	20 screw terminals, 2 rows 24 screw terminals, 3 rows				
Screwdriver Width	1/8 in (3.8 mm) maximum				
Screw Torque	4.4 lb·in (0.5 N·m) 4.4 lb·in (0.5 N·m)				





ZL-RTB20-1

## **BRX Pluggable Option Modules (POM)**

#### **Overview**

All BRX Do-more! MPUs have an available slot to receive one BRX Pluggable Option Module (POM). Available POM configurations are:

- RS-232 3-pin serial port
- RS-232 5-pin serial port
- RS-232 RJ12 port
- RS-422 5-pin serial port
- RS-485 serial port
- Ethernet port (RJ45)
- USB Type B Port

POM modules are hot swappable giving you the ability to utilize different communication options while the system is running. For example, you can configure the system using a POM RJ45 Ethernet port to talk with a C-more panel. Then hot swap to the USB POM for programming. When programming is complete hot swap back to the RJ45 Ethernet POM without needing to power cycle or reconfigure the system.



BX-P-SER2-TERM RS-232 Port



BX-P-SER2-TERMFC RS-232 Port w/ Flow Control



BX-P-SER4-TERM RS-485 Port



BX-P-SER422-TERM RS-422 Port



BX-P-SER2-RJ12 RS-232 Port (RJ12)



BX-P-ECOMLT Ethernet Port (RJ45)



BX-P-ECOMEX Ethernet Port



BX-P-USB-B USB Type B Port

BRX Programmable Option Modules						
Expansion Module Part No.	Price	Description				
BX-P-SER2-TERM	\$68.00	Non-isolated Serial port for communication via RS-232. Includes ESD protection and built-in surge protection.				
BX-P-SER2-TERMFC	\$71.00	Non-isolated Serial port for communication via RS-232, with flow control. Includes ESD protection and built-in surge protection.				
BX-P-SER4-TERM	\$69.00	Non-isolated Serial port for communication via RS-485. Includes ESD protection and built-in surge protection.				
BX-P-SER422-TERM	\$67.00	Non-isolated Serial port that can communicate via RS-422. Includes ESD protection and built-in surge protection.				
BX-P-SER2-RJ12	\$68.00	Non-isolated Serial port for communication via RS-232 Includes ESD protection and built-in surge protection.				
BX-P-ECOMLT	\$95.00	Standard transformer isolated Ethernet port (1 Mbps throughput max) with built-in surge protection.				
BX-P-ECOMEX	\$106.00	General-purpose standard transformer isolated Ethernet port (10/100 Mbps) with built-in surge protection.				
BX-P-USB-B	\$43.50	USB Type B Port for programming.				

**NOTE:** Pluggable Option Modules cannot be installed in BRX Remote I/O modules

(e.g., BX-DMIO, BX-MBIO, BX-EBC100).

### **General Specifications**

General specifications common to all the POM modules are listed in the table below.

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				
Agency Approvals	UL 61010-2 - UL File # E185989 Canada and USA CE Compliant E185989*				
Noise Immunity	NEMA ICS3-304				
EU Directive	See the "EU Directive" in Appendix B of the User Manual or topic DMD0331 in the Help File.				
Weight	7g (0.25 oz)				

<sup>\*</sup>Meets EMC and Safety requirements. See the D.O.C. for details.

BRX POM Capabilities								
	BX-P-SER2-TERM	BX-P-SER2-TERIMFC	BX-P-SER4-TERM	BX-P-SER422-TERM	BX-P-SER2-RJ12	BX-P-ECOMLT*	BX-P-ECOMEX	BX-P-USB-B
Monitoring & Programming	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Х
Do-more! Protocol	Х	Χ	Х	Χ	Х	Х	Χ	
Modbus RTU Master	Х	Χ	Х	Χ	Х		Χ	
Modbus RTU Slave	Χ	Χ	Х	Χ	Х		Χ	
Modbus TCP (Server)						Х	Χ	
HTTP							Х	
MQTT Client							Х	
FTP							Χ	
EtherNet/IP							Х	
K-Sequence (Slave)	Х	Х	Х	Х	Х	Х	Х	
ASCII (In & Out)	Х	Х	Х	Х	Х		Х	
Custom Protocols	Χ	Χ	Χ	Χ			Χ	

<sup>\*</sup> Limited to 1 Mbps throughput max

# **BRX Programming Software & Cable Assembly**

#### **Do-more! Designer Programming Software**

Free <u>Download</u>
Part No. <u>DM-PGMSW</u>
Part No. DM-PGMSW-USB

Do-more! Designer Programming software is a full-featured programming software for all BRX Series PLCs, Do-more! H2 Series PLCs and Do-more! T1H Series PLCs. Do-more! Designer Software is free. It can be downloaded from Automationdirect.com, or can be purchased on CD-ROM or USB.

FREE Retired \$13.00







#### BX-PGM-CBL \$35.50

The programming cable assembly connects your PC to any BRX MPU and enables you to program and configure the BRX MPU using the free Do-more! Designer software.

BX-PGM-CBL includes (1) BX-P-USB-B USB POM module and (1) USB-CBL-AB6 standard USB Type A to USB Type B connector cable.



### **BRX Accessories**

## Replacement Battery D0-MC-BAT \$3.00

A battery is included with all BRX MPUs and is used to retain the time and data along with any tagnames values that are set up as retentive. It is recommended that the battery be replaced once every five years or when one year of cumulative OFF time has been exceeded.



Battery				
D0-MC-BAT	Coin type, 3.0V Lithium battery, number CR2032			

## BRX Blank Custom Slot Labels BX-LBL-1 \$36.50

BRX Blank custom slot labels, package of 10. For use with 18-point and 36-point BRX PLCs. (10) labels and (1) custom label slot cover included.



## BRX Access Cover Kit BX-ACC-1 \$9.75

BRX Access cover kit, replacement. For use with all BRX PLCs. Includes (1) battery cover, (1) expansion slot cover, (1) blank POM slot insert and (1) custom label slot.

