# **BX 36/36E MPUs**

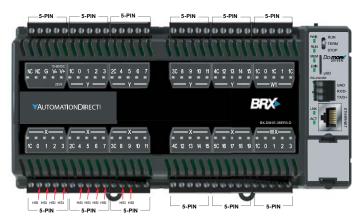
### BX-DM1E-36ER3-D \$548.00

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

- 24VDC required; serial port; Ethernet port; microSD slot
- Discrete input: 20-point, sink/source
- Analog input: 4-channel, current / voltage
- Discrete output: 16-point, relay
- · Analog output: 2-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	8 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		
Custom Label Window Size	0.75" x 2.25" [19mm x 57.2 mm]		
<b>MPU Weight</b> 474g [16.7 oz]			

Discrete Input Specifications			
Input Type	Sink/Source		
Total Inputs per Module	20 Total – 10 High Speed (X0X9)* 10 Standard (X10X19) *All inputs may be used as standard input:		
Commons	5 (4 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		

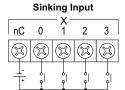


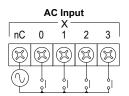
I/O Terminal Blocks sold separately.
(See Removable Terminal Block Specifications Table on BX 36/36E
MPU Accessories page.)

Discusto Output Openifications			
Discrete Output Specifications			
Output Type	Relay Form A (SPST)		
Total Outputs per Module	16 Relay		
Commons	4 (4 points/common) Isolated		
Maximum current per common	8A		
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 Circui		
Maximum Switching Frequency	10Hz		
Status Indicators	Logic Side, Green		

### I/O Wiring

Discrete Input Wiring



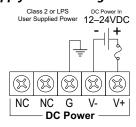


#### **Discrete Output Wiring**

Relay Output

Re

#### **Supply Power Wiring**



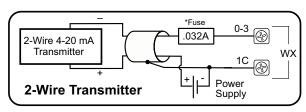
**BRX - Programmable Controller** 

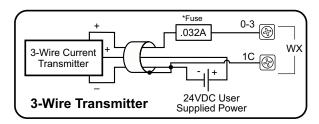
# **BX 36/36E MPUs**

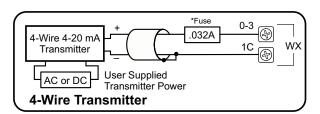
Analog Input Specifications			
Inputs per Module	4		
Input Voltage Range	Software Selectable ±10V, ±5V, 0–10 V, 0–5 V		
Input Current Range	Software Selectable ±20mA, 4–20 mA		
Resolution	16 bit @ ± 10V, ± 20mA		
Conversion Time	1.2 ms		
Input Impedance Voltage Modes	100kΩ		
Input Impedance Current Modes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

Analog Output Specifications		
Outputs per Module	2	
Operating Voltage Range	Software Selectable ±10V, ±5V, 0–10 V, 0–5 V	
Minimum Voltage Load Impedance	1kΩ	
Output Current Range	Software Selectable ±20mA, 4–20 mA	
Maximum Current Load Impedance	500Ω	
Conversion Time	< 1ms	
Resolution	16 bit @ ± 10V, ± 20mA	

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

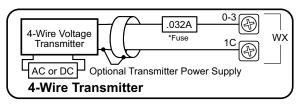


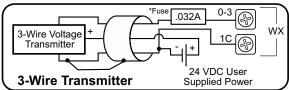




\*NOTE: An Edison S500-32-R 0.032 A fast-acting fuse is recommended for all analog voltage inputs, analog outputs, and current loops.

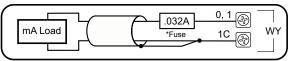
#### **Analog Voltage Input Circuits**



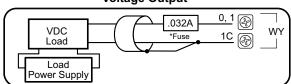


#### **Analog Output Wiring**

#### **Current Source Output**



#### **Voltage Output**

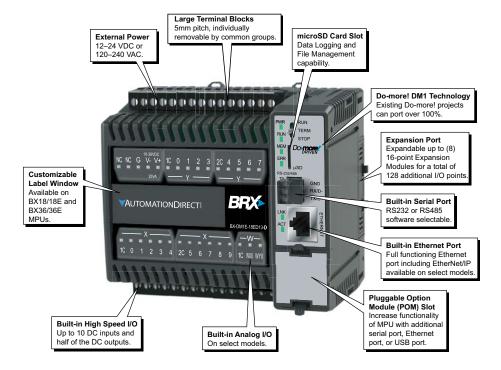


### **BRX Micro PLC Overview**

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		
Agency Approvals	UL61010-2 - UL File # E185989 Canada and USA		
	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	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 positi 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 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 Class 4 memory card)	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			



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 36E MPUs**

### 36 Discrete I/O Points: 20 Inputs, 16 Outputs

#### **Features**

- All units have 4 analog inputs and 2 analog outputs (current/voltage software selectable per channel)
- All units have built-in Ethernet port, 10/100 Mbps
- Models with DC inputs
- have 10 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
- Output types available are DC sinking, DC sourcing, and relay
- Models with DC outputs have 8 high-speed outputs up to 250kHz
- Support for 8 additional expansion modules
- Onboard RS-232/485 port with removable 3-Pin connector
- · microSD card slot



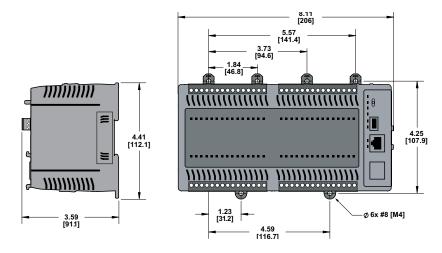
BX 36E Micro PLC Unit (MPU)
(Built-in Analog and Ethernet port)

BX 36E MPUs								
Part Number	Price	External Power	Discrete Inputs	Discrete Output	Analog		Expansion	
Tart Nambor	7 7700	External Fower	Biodroto inputo	Diooroto Catpat	Input	Output	Modules	
BX-DM1E-36ED13	\$592.00	120-240 VAC		8 High-Speed				
BX-DM1E-36ED13-D	\$567.00	12–24 VDC	10 High-speed	8 Standard DC Sinking			8	
BX-DM1E-36ED23	\$592.00	120-240 VAC	10 Standard	8 High-Speed	4	2		
BX-DM1E-36ED23-D	\$558.00	12–24 VDC	DC Sinking or Sourcing	8 Standard DC Sourcing		or		
BX-DM1E-36ER3	\$586.00	120-240 VAC			Voltage			
BX-DM1E-36ER3-D	\$548.00	12–24 VDC		16 Form A Relay	6 Form A Relay			
BX-DM1E-36AR3	\$589.00	120-240 VAC	20 Standard AC					

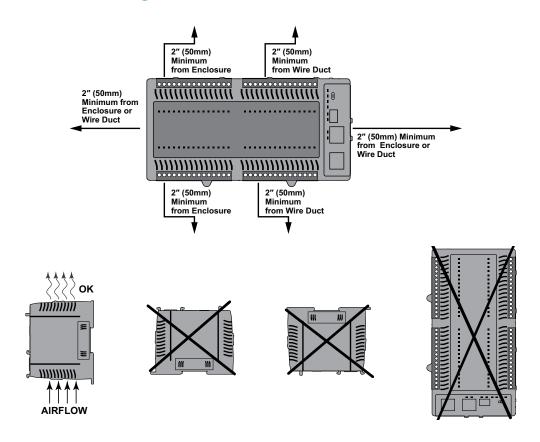
	<b>Built-in Ethernet Specifications</b>			
Port Name	ETHERNET			
Description	Standard transformer isolated Ethernet port with built-in surge protection.			
Transfer Rate	10 Mbps (Yellow LED) and 100 Mbps (Green LED)			
Port Status LED	LED is solid when network LINK is established. LED flash	es when port 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		
	MQTT	1883, TCP		
Supported Protocols	MQTTS	8883, TCP		
	HTTP	80, TCP		
	HTTPS	443, TCP		
	Embedded Web Server: HTTP (Unsecure)	80, TCP		
	FTP (Client)	21, TCP		
	EtherNet/IP: Explicit Messaging (Scanner, Adapter)	44818, TCP		
	EtherNet/IP: Implicit Messaging (Scanner, Adapter) (requires Do-more! Designer version 2.10 or later)	44818, TCP		
	DHCP	67.68. UCP		
	Ethernet Remote I/O 28			
	programming and monitoring			
Cable Recommendation	C5E-STxxx-xx from AutomationDirect.com			
Port Type	RJ45, Category 5, 10/100 BASE-T, Auto Crossover			

# **BX 36/36E MPUs**

### Dimensions, inches[mm]



### **Clearances and Mounting Restrictions**



# **BX 36/36E MPUs Accessories**

### **BX 36/36E Wiring Termination Selection**

The BX 36/36E MPUs ship without wiring terminals. This enables you to select the termination type that best suits your application. Several removable terminal

block options are available, including screw terminals, spring clamp terminals, as well as pre-wired **ZIP**Link module and cable solutions.

#### Terminal Block Connectors

The terminal block connectors are provided in kits and can be easily ordered as a single part number. Each kit contains all the terminal block connectors required: (12) 5-pin 5mm terminal blocks.

The BX 36/36E MPUs terminals are configured into groups consisting of 4 inputs and

4 outputs each with an isolated common. For example, inputs X0–X3 are grouped with a common terminal. The groups are isolated such that a single 5-pin connector can be removed without affecting another group of I/O or the external power source.



# BX-RTB36 Screw Terminal Block Kit

This terminal block kit includes (12), 5-pin 5mm, 90-degree screw terminal blocks with 180-degree wire pass through. It fits all BRX 36-point MPUs.



#### **BX-RTB36-1**

# BX-RTB36-1 Spring Terminal Block Kit

This terminal block kit includes (12) 5-pin, 5mm, 180-degree spring clamp wire terminal blocks. It fits all BRX 36-point MPUs.

Removable Terminal Block Specifications					
Part Number	BX-RTB36	BX-RTB36-1			
Price	\$49.00	\$49.00			
Connector Type	Screw Type-90-degree	Spring Clamp Type-180-degree			
Wire Exit	180-degree	180-degree			
Pitch	5.0 mm 5.0 mm				
Screw Size	M2.5	N/A			
Screw Torque	< 3.98 lb·in [0.45 N·m]	N/A			
Screwdriver Blade Width	3.5 mm	3.5 mm			
Wire Gauge (Single Wire)	28–12 AWG	28–14 AWG			
Wire Gauge (Dual Wire)	28–16 AWG	28–16 AWG (Dual wire ferrule required)			
Wire Strip Length	0.3 in [7.5 mm] 0.37 in [9.5 mm]				
Equiv. Dinkle P/N	5ESDV-05P-BK 5ESDSR-05P-BK				



# **PINK** 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. **ZIP**Links are as simple as plugging in a cable connector at either end or terminating wires at only one end. Pre-wired cables keep installation clean and efficient, using less space at a fraction of the cost of standard terminal blocks. **ZIP**Links pre-wired

cables connect directly from the MPU to a **ZIP**Links remote terminal block module or with the pigtail cable option, that enables for a convenient solution to wire the BRX platform to third-party devices. For the BX 36/36E MPUs four (4) cables and four (4) **ZIP**Links feedthrough modules are needed to connect all the onboard wiring termination points.

There are two (2) feed-through module options available, the <u>ZL-RTB20</u> and the <u>ZL-RTB20-1</u>.

The <u>ZL-RTB20</u> is a standard feedthrough terminal module while the <u>ZL-RTB20-1</u> is a feedthrough terminal block having a more compact footprint, requiring less space in the control cabinet.

	BX 36/36E <i>ZIP</i> Link Selector						
MPU Part Number	Component Type	Module Part Number	Max Quantity Needed	Cable Part Number*	Max Quantity Needed		
BX-DM1-36ED1							
BX-DM1-36ED1-D							
BX-DM1-36ED2							
BX-DM1-36ED2-D							
BX-DM1-36ER**							
BX-DM1-36ER-D**		ZL-RTB20					
BX-DM1-36AR**	Feedthrough	(Standard) OR	4	ZL-BX-CBL15 ZL-BX-CBL15-1	4		
BX-DM1E-36ED13	i eediiiougii	ZL-RTB20-1 (Compact)	4	ZL-BX-CBL15-1 ZL-BX-CBL15-2	4		
BX-DM1E-36ED13-D							
BX-DM1E-36ED23							
BX-DM1E-36ED23-D							
BX-DM1E-36ER3**					ı		
BX-DM1E-36ER3-D**							
BX-DM1E-36AR3**							

<sup>\*</sup> Select the cable length: Blank = 0.5 m, -1 = 1.0 m, -2 = 2.0 m. Available pigtail cables: ZL-BX-CBL15-1P = 1.0 m, ZL-BX-CBL15-2P = 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 pre-wired cables allow for fast and easy connection of field wiring to the BRX platform. The prewired cables are available in 0.5 meter, 1 meter

and 2 meter lengths. Pigtail cables are used to connect the BRX platform directly to third-party devices, reducing your wiring time and cost.

The pigtail cables are available in 1 meter and 2 meter lengths.





Pre-wired ZIPLink Cable

ZIPLink Pigtail Cable

### **ZIP**Link Feedthrough Modules

Feedthrough modules provide lowcost 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]			





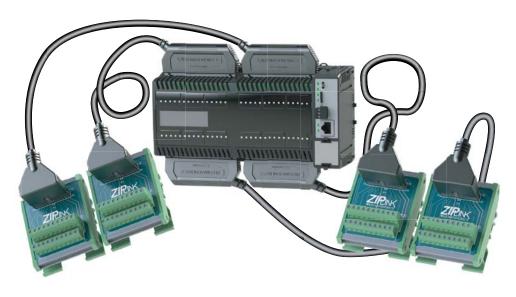
ZL-RTB20-1



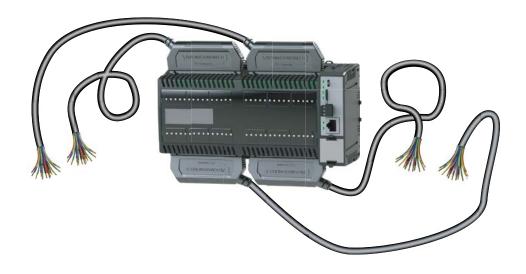
# Wiring Solutions

### **ZIP**Link System Examples

BX 36 MPU with **ZIP**Link pre-wired cables and <u>ZL-RTB20</u> feedthrough modules.



BX 36 MPU with **ZIP**Link pigtail cables installed.



# **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

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**NOTE:** Pluggable Option Modules cannot be installed in BRX Remote I/O modules (e.g., BX-DMIO, BX-MBIO, BX-EBC100).

BRX Programmable Option Modules						
Expansion Module Part No.	Price	Description				
BX-P-SER2-TERM	\$76.00	Non-isolated Serial port for communication via RS-232. Includes ESD protection and built-in surge protection.				
BX-P-SER2-TERMFC	\$79.00	Non-isolated Serial port for communication via RS-232, with flow control. Includes ESD protection and built-in surge protection.				
BX-P-SER4-TERM	\$77.00	Non-isolated Serial port for communication via RS-485. Includes ESD protection and built-in surge protection.				
BX-P-SER422-TERM	\$79.00	Non-isolated Serial port that can communicate via RS-422. Includes ESD protection and built-in surge protection.				
BX-P-SER2-RJ12	\$76.00	Non-isolated Serial port for communication via RS-232 Includes ESD protection and built-in surge protection.				
BX-P-ECOMLT	\$99.00	Standard transformer isolated Ethernet port (1 Mbps throughput max) with built-in surge protection.				
BX-P-ECOMEX	\$119.00	General-purpose standard transformer isolated Ethernet port (10/100 Mbps) with built-in surge protection.				
BX-P-USB-B	\$46.00	USB Type B Port for programming.				

### **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			
See the "EU Directive" in Appendix B of the User Manu 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	Х	Х	Χ	Х	Х	Χ	
Modbus RTU Master	Х	Х	Х	Х	Х		Χ	
Modbus RTU Slave	Х	Χ	Х	Χ	Х		Χ	
Modbus TCP (Server)						Х	Χ	
HTTP							Χ	
MQTT Client							Χ	
FTP							Χ	
EtherNet/IP							Х	
Embedded Web Server: HTTP (Unsecure)							Х	
K-Sequence (Slave)	Х	Х	Х	Х	Х	Х	Χ	
ASCII (In & Out)	Χ	Х	Χ	Χ	Χ		Χ	
Custom Protocols	Х	Х	Х	Х			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. 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 \$13.00





### BX-PGM-CBL \$49.00

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 \$11.00

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.

