## 1-800-633-0405 BX 36/36E MPUs

#### BX-DM1-36ER

#### \$012a1:

BRX MPU with Do-more! DM1 technology

- 120VAC required; serial port; microSD slot
- Discrete input: 20-point, sink/sourceDiscrete output: 16-point, relay

#### **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 RS-232, RS-485, Ethernet 10/100 BASE-T **Pluggable Option Module** (1 Mbps throughput max), USB 2.0 Type B Data Logging/File Management microSD card slot (32G max) 8 max, as long as the MPU power **Expansion Modules** budget is not exceeded ±2.6 s per day typical at 25°C Real Time Clock Accuracy ±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] MPU Weight 488g [17.2 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 inputs		
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		

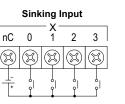
#### 5-PIN 5-PIN 5-PIN 5-PIN - 5-PIN 5-PIN 0000000000000000 10012 BRX **VAUTOMATIONDIRECT** 20.4 30.8 \_\_\_\_\_ 5-PIN \_\_\_\_ 5-PIN 5-PIN 5-PIN

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

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 Circuit			
Maximum Switching Frequency	10Hz			
Status Indicators Logic Side, Green				

#### I/O Wiring

Discrete Input Wiring



AAA

nC 0

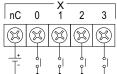
**Discrete Output Wiring** 

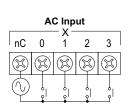
**Relay Output** 

(%)(%)

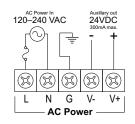
2 3







#### Supply Power Wiring



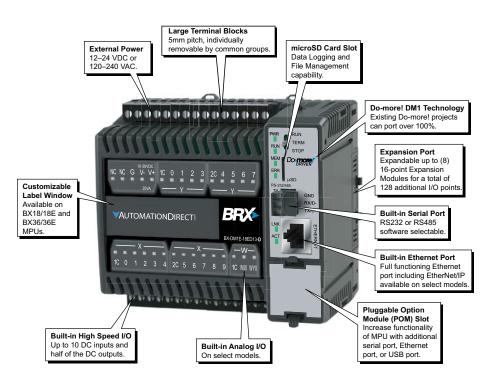
www.automationdirect.com

#### BRX - Programmable Controller

tBRX-14

# 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		
Aganay Annyayala	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			

\*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 # <u>BX-RTB03S</u>		

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.

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					

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	
Yellow ROM Activity (Flash or SD Card)		ROM Activity (Flash or SD Card)	
MEM Green		SD Card Installed and Mounted	
	Red	SD Card Installed and Not Mounted	
ERR	OFF	CPU is functioning normally	
EKR	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.			





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			

## 1-800-633-0405 BX 36 MPUs 36 Discrete I/O Points: 20 Inputs, 16 Outputs

#### Features

- 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 rated up to 250kHz
- Support for up to 8 additional Expansion Modules as long as the power budget is not exceeded.
- Onboard RS-232/485 port with removable 3-Pin connector
- microSD card slot

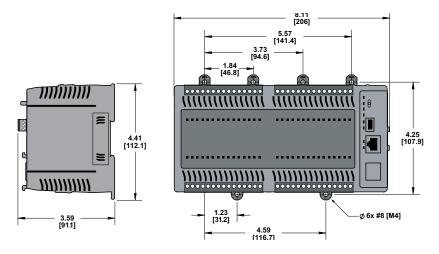


#### BX 36 Micro PLC Unit (MPU) (No Built-in Analog or Ethernet port)

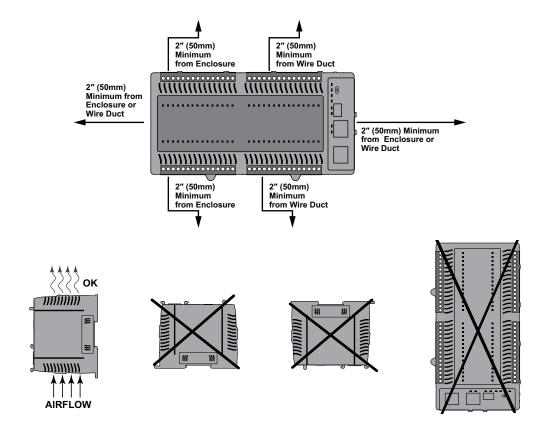
BX 36 MPUs						
Part Number	Price	External Power	Discrete Input	Discrete Output	Expansion Modules	
BX-DM1-36ED1	\$;0129,:	120–240 VAC		8 High-speed		
<u>BX-DM1-36ED1-D</u>	\$012a3:	12–24 VDC	10 High aroud	10 High-speed —	8 Standard DC Sinking	
BX-DM1-36ED2	\$012a0:	120–240 VAC	10 Standard	8 High-speed	8, as long as the	
<u>BX-DM1-36ED2-D</u>	\$012a4:	12-24 VDC	DC Sinking or Sourcing	8 Standard DC Sourcing	MPU power budget is not	
BX-DM1-36ER	\$012a1:	120–240 VAC			exceeded	
BX-DM1-36ER-D	\$012a5:	12-24 VDC		16 Form A Relay		
BX-DM1-36AR	\$012a2:	120–240 VAC	20 AC			

## 1-800-633-0405 **BX 36/36E MPUs**

#### Dimensions, inches[mm]



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



## 1-800-633-0405 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



BX-RTB36-1

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.

#### <u>BX-RTB36-1</u> 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	<u>BX-RTB36-1</u>			
Price	\$1291:	\$1298:			
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				



#### **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 ZIPLink 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		<u>ZL-RTB20</u> (Standard) OR <u>ZL-RTB20-1</u> (Compact)	4	ZL-BX-CBL15 ZL-BX-CBL15-1 ZL-BX-CBL15-2	4
BX-DM1-36ED2-D					
BX-DM1-36ER**					
BX-DM1-36ER-D**					
BX-DM1-36AR**	<b>Faaddhaarrah</b>				
BX-DM1E-36ED13	Feedthrough				
BX-DM1E-36ED13-D					
BX-DM1E-36ED23					
BX-DM1E-36ED23-D					
BX-DM1E-36ER3**					
BX-DM1E-36ER3-D**					
BX-DM1E-36AR3**					

\* Select the cable length: Blank = 0.5 m, -1 = 1.0 m, -2 = 2.0 m.

Available pigtail cables: <u>ZL-BX-CBL15-1P</u> = 1.0 m, <u>ZL-BX-CBL15-2P</u> = 2.0 m.

\*\* 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.



#### **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 <u>ZL-RTB20</u> (Maximum of 4 needed)		<u>ZL-RTB20-1</u> (Maximum of 4 needed)			
Number of positions	20 screw terminals, 2 rows 24 screw terminals, 3 row				
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]				





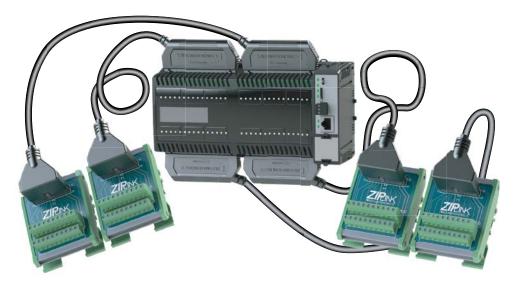
ZL-RTB20-1



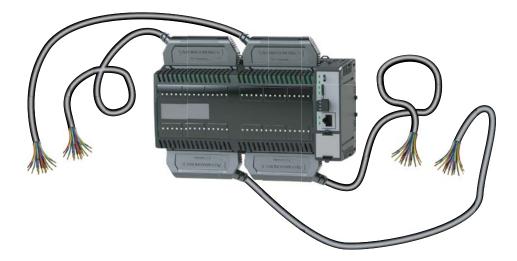
# • Wiring Solutions

#### **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.



## 1-800-633-0405 For the latest prices, please check AutomationDirect.com. 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 BX-P-ECOMLT RS-232 Port (RJ12) Ethernet Port (RJ45)





BX-P-USB-B USB Type B Port

BRX POM Capabilities							
BX-P-SER2-TERM	BX-P-SER2-TERMFC	BX-P-SER4-TERM	BX-P-SER422-TERM	BX-P-SER2-RJ12	BX-P-ECOMLT*	BX-P-ECOMEX	BX-P-USB-B
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\* Limited to 1 Mbps throughput max

BRX - Programmable Controller tBRX-185



**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	\$12ag:	Non-isolated Serial port for communication via RS-232. Includes ESD protection and built-in surge protection.			
BX-P-SER2-TERMFC	\$-4gi3:	Non-isolated Serial port for communication via RS-232, with flow control. Includes ESD protection and built-in surge protection.			
<u>BX-P-SER4-TERM</u>	\$12ah:	Non-isolated Serial port for communication via RS-485. Includes ESD protection and built-in surge protection.			
<u>BX-P-SER422-TERM</u>	\$-4gi4:	Non-isolated Serial port that can communicate via RS-422. Includes ESD protection and built-in surge protection.			
BX-P-SER2-RJ12	\$;12af:	Non-isolated Serial port for communication via RS-232 Includes ESD protection and built-in surge protection.			
BX-P-ECOMLT	\$-012aj:	Standard transformer isolated Ethernet port (1 Mbps throughput max) with built-in surge protection.			
<u>BX-P-ECOMEX</u>	\$;04t?z:	General-purpose standard transformer isolated Ethernet port (10/100 Mbps) with built-in surge protection.			
<u>BX-P-USB-B</u>	\$-12ai:	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			
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]			

\*Meets EMC and Safety requirements. See the D.O.C. for details.

# BRX Programming Software & Cable Assembly

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

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

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 \$1oc9:





#### BX-PGM-CBL \$1288:

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



# BRX Accessories

# Replacement Battery D0-MC-BAT \$;6t8:

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 \$10c7:

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 \$10c8:

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.

