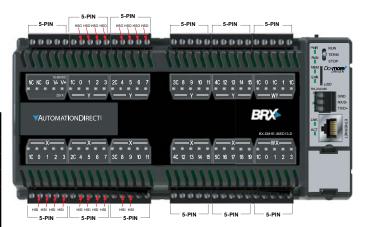
BX 36/36E MPUs BX-DM1E-36ED13-D

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, sinking
- 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)	
MPU Weight	422g (14.9 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	

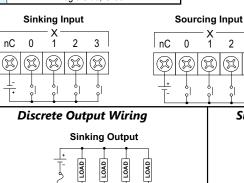


I/O Terminal Blocks sold separately. (See Removable Terminal Block Specifications Table on BX 36/36E MPU Accessories page.)

Discrete Output Specifications		
Output Type	Sinking	
Total Outputs per Module	16 Total – 8 High Speed (Y0Y7)* 8 Standard (Y8Y15) *All outputs may be used as standard outputs	
Commons	4 (4 points/con	nmon) Isolated
Maximum Current per Common	2A	
Nominal Voltage Rating	12–24 VDC	
Operating Voltage Range	5–36 VDC	
Maximum Voltage	36VDC	
Minimum Output Current	0.1 mA @ 24VDC	
Maximum Output Current	0.5 A per output, no derating over temperature range	
Maximum Leakage Current	10µA	
Maximum Switching	1m cable	250kHz
Frequency	10m cable	100kHz
Status Indicators	Logic Side, Green	

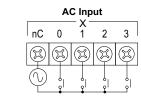
I/O Wiring

Discrete Input Wiring



AAA

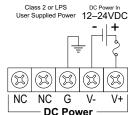
nC 0 1 2 3





3

X



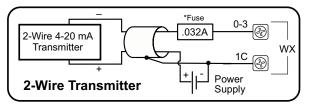
BRX - Programmable Controller

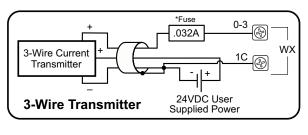
BX 36/36E MPUs

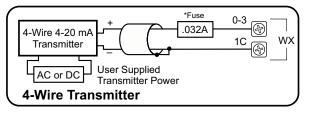
Analog Input Specifications		
Inputs per Module	4	
Input Voltage Range	Software Selectable ±10V, ±5V, 0–10 V, 0–5 V	
Input Current Range	Software Selectable ±20mA, 4–20 mA	
Resolution	16 bit @ ± 10V, ± 20mA	
Conversion Time	1.2 ms	
Input Impedance Voltage Modes	100kΩ	
Input Impedance Current Modes	249Ω	

Analog Output Specifications		
Outputs per Module	2	
Output 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

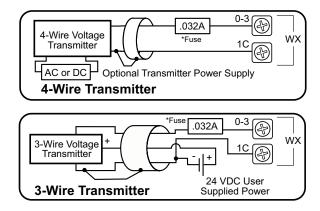






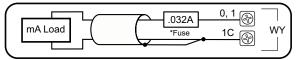
*NOTE: An Edison S500-32-R 0.032 A fast-acting fuse is recommended for all analog voltage inputs, analog outputs, and current loops.

Analog Voltage Input Circuits

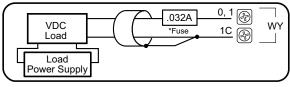


Analog Output Wiring

Current Source Output

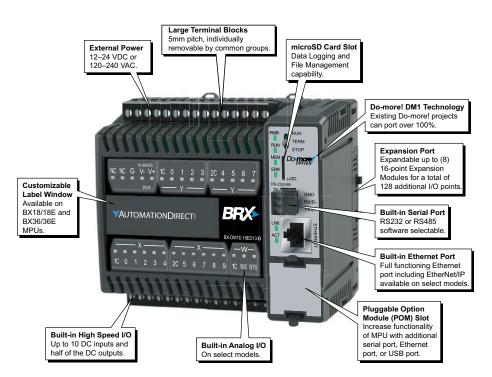


Voltage Output



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	vironmental 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	

*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 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
мем	Yellow	ROM Activity (Flash or SD Card)
IVIEIVI	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.	





Pin	SD
1	DAT2
2	CD/DAT3
3	CMD
4	VDD
5	CLK
6	VSS
7	DAT0
8	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
- \bullet 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



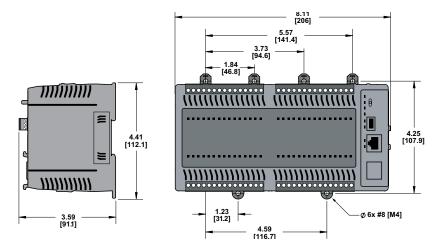
BX 36E Micro PLC Unit (MPU) (Built-in Analog and Ethernet port)

		BX 30	6E MPUs					
Part Number	Number Price External Power Discrete Inputs Discrete Output		Analog		Expansion			
	Frice	External Power	Discrete Inputs	Discrete Output	Input	Output	_{it} Modules	
BX-DM1E-36ED13		120–240 VAC		8 High-Speed		2 Current or Voltage	8	
<u>BX-DM1E-36ED13-D</u>		12–24 VDC	10 High-speed	8 Standard DC Sinking	4 Current or Voltage			
BX-DM1E-36ED23		120–240 VAC	10 Standard	8 High-Speed 8 Standard DC Sourcing				
<u>BX-DM1E-36ED23-D</u>		12–24 VDC	DC Sinking or Sourcing					
BX-DM1E-36ER3		120–240 VAC						
BX-DM1E-36ER3-D		12-24 VDC		16 Form A Relay				
BX-DM1E-36AR3		120–240 VAC	20 Standard AC					

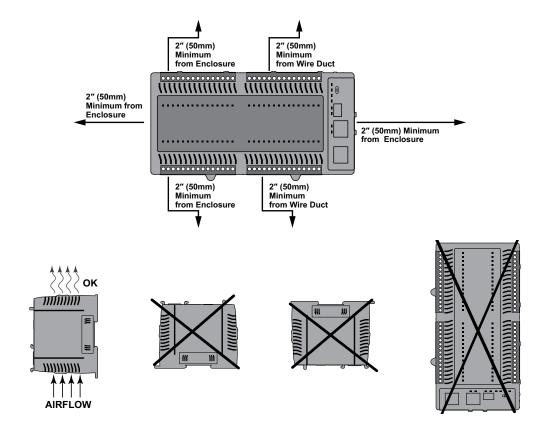
	Built-in Ethernet Specifications			
Port Name	ETHERNET			
Description	Standard transformer isolated Ethernet port with built-in su	rge protection.		
Transfer Rate	10 Mbps (Yellow LED) and 100 Mbps (Green LED)			
Port Status LED	LED is solid when network LINK is established. LED flashe	s when port is 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		
Summerted Brotecolo	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 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



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					
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 (Dual wire ferrule requ				
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				



ZPRINK[®] Wiring Solutions

ZIPLink Pre-Wired Cable Solutions

ZIPLinks 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						
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	reedinough	ZL-RTB20-1		ZL-BX-CBL15-2	4	
BX-DM1E-36ED13-D		(Compact)				
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: ZL-BX-CBL15-1P = 1.0 m, ZL-BX-CBL15-2P = 2.0 m.

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



Wiring Solutions

ZIPLink 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.



ZIPLink 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)				





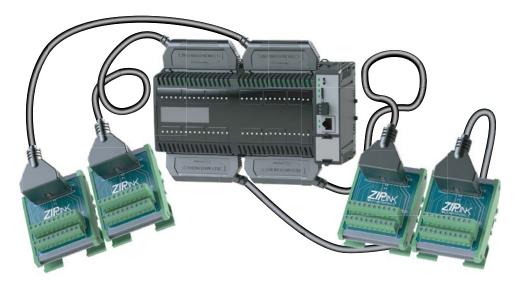
ZL-RTB20-1



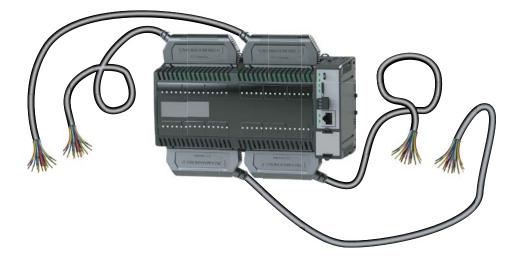
ZPR Wiring Solutions

ZIPLink 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 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
Monitoring & Programming	Х	Х	Х	Х	Х	Х	Х	Х
Do-more! Protocol	Х	Х	Х	Х	Х	Х	Х	
Modbus RTU Master	Х	Х	Х	Х	Х		Х	
Modbus RTU Slave	Х	Х	Х	Х	Х		Х	
Modbus TCP (Server)						Х	Х	
НТТР							Х	
MQTT Client							Х	
FTP							Х	
EtherNet/IP							Х	
K-Sequence (Slave)	Х	Х	Х	Х	Х	Х	Х	
ASCII (In & Out)	Х	Х	Х	Х	Х		Х	
Custom Protocols	Х	Х	Х	Х			Х	
* Limited to 1 Mbns throughout ma								

 BRX Programmable Option Modules

 Expansion Module Part No.
 Price
 Description

 BX-P-SER2-TERM
 Non-isolated Serial port for communication via RS-232

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

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

BX-P-SER2-TERM	Includes ESD protection and built-in surge protection.
BX-P-SER2-TERMFC	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>	Non-isolated Serial port for communication via RS-485. Includes ESD protection and built-in surge protection.
BX-P-SER422-TERM	Non-isolated Serial port that can communicate via RS-422. Includes ESD protection and built-in surge protection.
BX-P-SER2-RJ12	Non-isolated Serial port for communication via RS-232 Includes ESD protection and built-in surge protection.
<u>BX-P-ECOMLT</u>	Standard transformer isolated Ethernet port (1 Mbps throughput max) with built-in surge protection.
BX-P-ECOMEX	General-purpose standard transformer isolated Ethernet port (10/100 Mbps) with built-in surge protection.
BX-P-USB-B	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.

* 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. <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



BX-PGM-CBL

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

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.



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

BRX Blank Custom Slot Labels

BX-LBL-1

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

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.

