BX 18/18E MPUs

BX-DM1E-18ED23 \$475.00

BRX MPU with Do-more! DM1 technology

- 120VAC required; serial port; Ethernet port; microSD slot
- Discrete input: 10-point, sink/source
- Analog input: 1-channel, current / voltage
- Discrete output: 8-point, sourcing
- Analog output: 1-channel, current / voltage

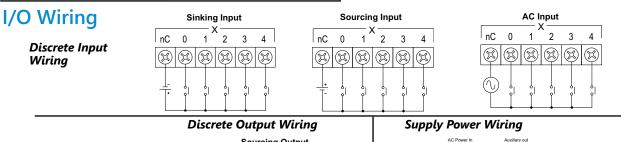
CPU Specifications		
Program Memory Type	FLASH memory	
User Data Memory Type	Battery-backed RAM, user configurable	
Serial Port	RS-232/485 3-Pin, Software selectable	
Ethernet Port	RJ-45, 10/100 Mbps	
Pluggable Option Module	RS-232, RS-485, Ethernet 10/100 BASE-T (1 Mbps throughput max), USB 2.0 Type B	
Data Logging/File Management	microSD card slot (32G max)	
Expansion Modules	8 max, as long as the MPU power budget is not exceeded	
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	299g (10.6 oz)	

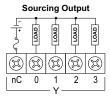
Discrete Input Specifications			
Input Type	Sink/Source		
Total Inputs per Module	10 High Speed * * All inputs may be used as standard inputs.		
Commons	2 (5 points/common) Isolated		
Nominal Voltage Rating	12-24 VAC/DC		
Input Voltage Range	9–30 VAC/DC		
Maximum Voltage	30 VAC/DC		
DC Frequency	0–250kHz - 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		

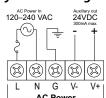


I/O Terminal Blocks sold separately.
(See Removable Terminal Block Specifications Table on BX 18/18E MPU
Accessories page.)

Discrete Output Specifications			
Output Type	Sourcing		
Total Outputs per Module	8 Total – 4 High Speed (Y0Y3)* 4 Standard (Y4Y7) *All outputs may be used as standard outputs		
Commons	2 (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		





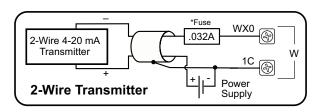


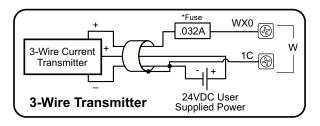
BRX - Programmable Controller

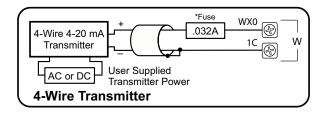
BX 18/18E MPUs

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 Current Sinking Input Circuits

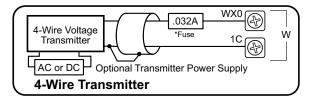


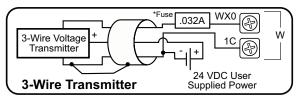




*NOTE: An Edison S500-32-R 0.032A fast-acting fuse is recommended for all analog voltage inputs, analog outputs, and current loops.

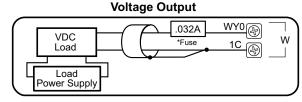
Analog Voltage Input Circuits





Analog Output Wiring

Current Source Output .032A WY0 "Fuse 1C W

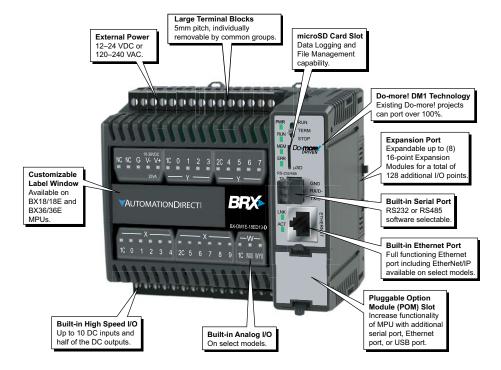


BRX Micro PLC Overview

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	

^{*}Meets EMC and Safety requirements. See the D.O.C. for details.



2 Year WarrantyAll 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
Red CPU Fatal Hardware Error or		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 positio 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	Read 14.3 14.4 14.6			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 18E MPUs

18 Discrete I/O Points: 10 Inputs, 8 Outputs

Features

- All units have 1 analog input and 1 analog output (current/voltage software selectable)
- All units have built-in Ethernet port, 10/100 Mbps
- Models with DC input have:
- 10 high-speed inputs rated 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 4 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



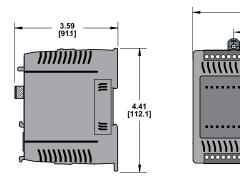
BX 18E Micro PLC Unit (MPU)
(Built-in Analog and Ethernet port)

	BX 18E MPUs							
Part Number	Part Number Price External Power Discrete In		Discrete Inputs	Discrete Output	Analog		Expansion	
rait Nullibei	Price	External Power	Discrete Inputs	Discrete Output	Input	Output	Modules	
BX-DM1E-18ED13	\$476.00	120-240 VAC		4 High-Speed				
BX-DM1E-18ED13-D	\$450.00	12–24 VDC		4 Standard DC sinking	1 Current or Voltage	or	8, as long as	
BX-DM1E-18ED23	\$475.00	120-240 VAC	10 High-Speed	4 High-Speed				
BX-DM1E-18ED23-D	\$443.00	12–24 VDC	DC Sinking or Sourcing	4 Standard DC sourcing			the MPU power	
BX-DM1E-18ER3	\$468.00	120-240 VAC					budget is not exceeded	
BX-DM1E-18ER3-D	\$443.00	12–24 VDC		8 Form A relay			CXCCCCCC	
BX-DM1E-18AR3	\$457.00	120-240 VAC	10 Standard AC					

	Built-in Ethernet Specifications				
Port Name	THERNET				
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 flashes	.ED is solid when network LINK is established. LED flashes 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			
	MQTTS	8883, TCP			
Supported Protocols	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	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 18/18E MPUs

Dimensions, inches[mm]

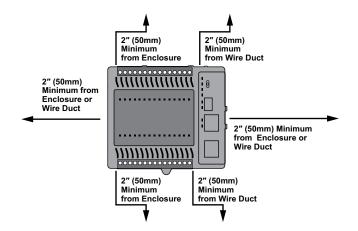


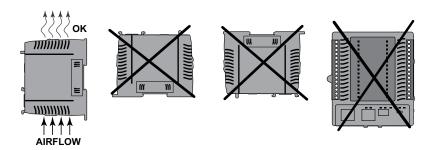
4.69 [119.1]

> 4.25 [107.9]

Ø 3x #8 [M4]

Clearances and Mounting Restrictions





BX 18/18E MPUs Accessories

BX 18/18E MPU Wiring Termination Selection

The BX 18/18E MPUs ship with no predefined wiring termination option. This enables you to select the

termination type that best suits your application. Several wiring options are available, including removable screw

terminal connectors, removable spring clamp terminal connectors and pre-wired **ZIP**Link cable solutions.

Terminal Block Connectors

The terminal block connectors are provided in kits and can be ordered as a single part number. Each kit contains all the terminal block connectors required (6 pieces): (3) 5-pin 5mm terminal blocks, (2) 6-pin 5mm terminal blocks, and (1) 3-pin 5mm terminal block.

The BX 18/18E MPUs terminals are

configured into groups of 5 inputs and 4 outputs each with an isolated common. For example, inputs X0–X4 are grouped with their common terminal. On the BX 18E MPU, the analogs are grouped as 3 terminals consisting of 1 input, 1 output and a shared isolated analog common. The I/O termination groups are isolated

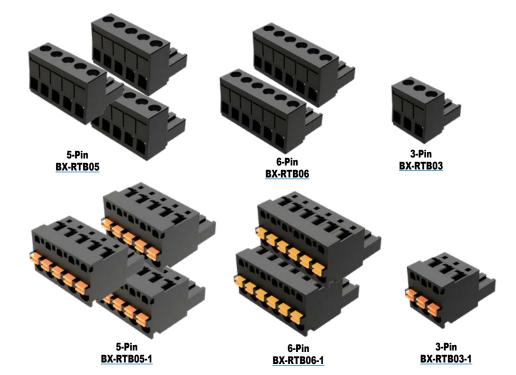
such that a single group connector can be removed without affecting other groups of I/O or the external power source

BX-RTB18 Screw Terminal Block Kit

This terminal block kit includes (6 pieces): (3) 5-pin 5mm terminal blocks (BX-RTB05), (2) 6-pin 5mm terminal blocks (BX-RTB06), and (1) 3-pin 5mm terminal block (BX-RTB03). These are 90-degree screw terminal blocks. Wire is 180-degree pass through.

BX-RTB18-1 Spring Terminal Block Kit

This terminal block kit includes (6 pieces): (3) 5-pin 5mm terminal blocks (BX-RTB05-1), (2) 6-pin 5mm terminal blocks (BX-RTB06-1), and (1) 3-pin 5mm terminal block (BX-RTB03-1). These are 180-degree spring clamp wire terminal blocks



Removable 1	Terminal Block Spec	Replacement 6-Pin			
Part Number	<u>BX-RTB18</u>	<u>BX-RTB18-1</u>	BX-RTB06	<u>BX-RTB06-1</u>	
Price (pkg)	\$35.00	\$35.00	\$10.50	\$9.25	
Connector Type	Screw Type-90-degree	Spring Clamp Type-180-degree	Screw Type-90-degree	Spring Clamp Type-180-degree	
Wire Exit	180-degree	180-degree	180-degree	180-degree	
Pitch	5.0 mm	5.0 mm	5.0 mm	5.0 mm	
Screw Size	M2.5	N/A	M2.5	N/A	
Recommended Screw Torque	< 3.98 lb·in (0.45 N·m)	N/A	< 3.98 lb·in (0.45 N·m)	N/A	
Screwdriver Blade Width	3.5 mm	3.5 mm	3.5 mm	3.5 mm	
Wire Gauge (Single Wire)	28-12 AWG	28–14 AWG	28–12 AWG	28–14 AWG	
Wire Gauge (Dual Wire)	28–16 AWG	28–16 AWG (Dual wire ferrule required)	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)	0.3 in (7.5 mm)	0.37 in (9.5 mm)	
Equiv. Dinkle P/N	5ESDV-0nP-BK*	5ESDSR-0nP-BK*	5ESDV-06P-BK	5ESDSR-06P-BK	

^{*} Replace n with: (3) 3-terminal, (5) 5-terminal or (6) for 6-terminal.



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. 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, allowing for a convenient solution to wire the BRX platform to third-party devices. For the BX 18/18E MPUs, two (2) cables and two (2) **ZIP**Link feedthrough modules are needed to connect to all the onboard wiring termination points.

Two (2) feedthrough module options are available: the ZL-RTB20 and the ZL-RTB20-1. The ZL-RTB20 is a standard feedthrough terminal module while the ZL-RTB20-1 is a feedthrough terminal block having a more compact footprint, requiring less space in the control cabinet.

BX 18/18E <i>ZIP</i> Link Selector						
MPU Part Number	Component Type	Module Part Number	Max Quantity Needed	Cable Part Number*	Max Quantity Needed	
BX-DM1-18ED1						
BX-DM1-18ED1-D						
BX-DM1-18ED2						
BX-DM1-18ED2-D						
BX-DM1-18ER**						
BX-DM1-18ER-D**		ZL-RTB20				
BX-DM1-18AR**	Feedthrough	(Standard) OR	2	ZL-BX-CBL15 ZL-BX-CBL15-1	2	
BX-DM1E-18ED13	reedinough	ZL-RTB20-1	2	ZL-BX-CBL15-1 ZL-BX-CBL15-2	2	
BX-DM1E-18ED13-D		(Compact)				
BX-DM1E-18ED23						
BX-DM1E-18ED23-D						
BX-DM1E-18ER3**						
BX-DM1E-18ER3-D**						
BX-DM1E-18AR3**						

^{*} 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 prewired cables allow for fast and easy connection of field wiring and remote I/O 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.







ZIPLink Pigtail Cable

ZIPLink Remote 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

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	\$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.				
RY-P-FCOMEY	\$119.00	General-purpose standard transformer isolated Ethernet				

port (10/100 Mbps) with built-in surge protection.

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

BX-P-ECOMEX

BX-P-USB-B

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

\$119.00

\$46.00

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 Man DMD0331 in the Help File.						
Weight	7g (0.25 oz)					

^{*}Meets EMC and Safety requirements. See the D.O.C. for details.

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	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Do-more! Protocol	Х	Х	Х	Χ	Х	Х	Х	
Modbus RTU Master	Х	Х	Х	Χ	Х		Χ	
Modbus RTU Slave	Х	Х	Х	Х	Х		Х	
Modbus TCP (Server)						Х	Χ	
НТТР							Χ	
MQTT Client							Χ	
FTP							Х	
EtherNet/IP							Х	
Embedded Web Server: HTTP (Unsecure)							Х	
K-Sequence (Slave)	Χ	Х	Х	Х	Χ	Х	Х	
ASCII (In & Out)	Χ	Х	Χ	Х	Χ		Χ	
Custom Protocols	Х	Х	Х	Х			Х	
* Limited to 1 Mbps throughput ma								

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.

