BX-P-ECOMLT S	Specifications
	Standard transformer isolated Ethernet port with built-in surge protection. Works with all BRX Processors; BX-DM1-x, BX-DM1E-x.
Transfer Rate	10Mbps (Orange LED) and 100Mbps (Green LED) (1Mbps throughput max).
Port Status LED	LINK LED is solid when network link is established. ACT LED flashes when port is active.
Supported Protocols	Do-more! Protocol (Server) Programming/Monitoring Modbus TCP (Server) K-sequence (Server)
Cable Recommendation	C5E-STxxx-xx from AutomationDirect.com
Port Type	RJ45, Category 5, 10/100 BASE-T, Auto Crossover
Hot Swappable	Yes

BX-P-USB-B Specifications		
	USB Type B for programming.	
USB Specification Version	USB 2.0	
Port Status LED	LED flashes when port is active	
Cable Requirements Recommendation	USB-CBL-ABxx from AutomationDirect.com	
Hot Swappable	Yes	

BX-P-ECOMEX S	Specifications
	Standard transformer isolated Ethernet port with built-in surge protection. Requires Ethernet Enabled BRX Processor; BX-DM1E-x. Must be placed on a separate subnet than the processor onboard port.
Transfer Rate	10/100 Mbps
Port Status LED	LINK LED is solid when network is established. ACT LED flashes when port is active.
Cable Recommendation	C5E-STxxx-xx from AutomationDirect.com
Port Type	RJ45, Category 5, Auto Crossover
Hot Swappable	Yes
Supported Protocols	SMTP(Email) FTP (Client) Do-more! Ethernet I/O MQTT / MQTTS HTTP / HTTPS EtherNet/IP (Explicit Messaging) SNTP (Time Server) TCP/IP (Raw Packet) Modbus TCP/IP (Client & Server) DHCP (Client) Do-more! Protocol Do-more! PeerLink

General Specifications	
0° to 60°C (32° to 140°F)	
-20° to 85°C (-4° to 185°F)	
5 to 95% (non-condensing)	
No corrosive gases permitted	
IEC60068-2-6 (Test Fc)	
IEC60068-2-27 (Test Ea)	
Open Equipment	
UL61010-2 - UL File # E185989 Canada and USA CE Compliant E185989*	
NEMA ICS3-304	
See the "EU Directive" topic in the Help File	
7g (0.25 oz)	

*Meets EMC and Safety requirements. Se	e the D.O.C. for details
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VAUTOMATION DIRECT



BX-P-ECOMLT Ethernet port using RJ45 connection, Limited use port; server functions only

BX-P-ECOMEX Secondary Ethernet Port

BX-P-USB-B USB port Type B connection

BX-P-SER2-RJ12 RS232 Serial Port using an RJ12 connection

BX-P-SER2-TERM RS232 Serial Port using a 3-pin terminal block connection

BX-P-SER4-TERM RS485 serial port using a 3-pin terminal block connection

BX-P-SER2-TERMFC RS232 Serial Port with Flow Control using a 5-pin terminal block connection

BX-P-SER422-TERM RS422 serial port Terminal using a 5-pin terminal block connection

WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

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Do-more! BRX Manual available at www.automationdirect.com/pn/doc/manual/BX-POM



IMPORTANT!



Hot-Swapping Information

Note: This device may be Hot Swapped.

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BX-P-SER2-TERM Specifications Non-isolated RS-232 DTE port. Includes ESD protection and built-in surge protection. Modbus RTU (Master & Slave) K-Sequence (Slave) ASCII (In & Out) Custom Protect Support Protocols 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 Data Rates 115200bps, No Parity, 8 Data Bits, 1 Stop Bit, Station #1 Default Settings Port Status LED Green LED is illuminated when active for TXD and RXD Recommend L19772-XXX from AutomationDirect.com Cable Requirements Replacement Connectors BX-RTB03S from AutomationDirect.com Hot Swappable

BX-P-SER4-TERM Specifications		
	Non-isolated RS-485 DTE port. Includes ESD protection and built- in surge protection.	
Support Protocols	Do-more! Protocol (Default) Modbus RTU (Master & Slave) K-Sequence (Slave) ASCII (In & Out) Custom Protocols	
Data Rates	1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200	
Default Settings	115200bps, No Parity, 8 Data Bits, 1 Stop Bit, Station #1, termination resistor OFF	
RS-485 Station Addresses	1-247	
Port Status LED	Green LED is illuminated when active for TXD and RXD	
DIP Switch	Selectable 120Ω termination resistor	
Cable Options	Recommend L19827-XXX from AutomationDirect.com	
Replacement Connectors	BX-RTB03S from AutomationDirect.com	
Hot Swappable	Yes	

BX-RTB03S and BX-RTB0	5S Connector S	pecifications
Part Number	BX-RTB03S	BX-RTB05S
Connector Type	Screw Type	
Wire Exit	180 d	egree
Pitch	3.5mm	
Screw Size	M2	
Recommended Screw torque	<1.77Lb-in (0.2 N-m)	
Screwdriver Blade Width	2.5	mm
Wire Gauge (Single Wire)	28-16 AWG	
Wire Gauge (Two Wires)	28-16 AWG	
Wire Strip Length	0.24in (6mm)	
Equiv. Dinkle part #	EC350V-03P-BK	EC350V-05P-BK





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

Removable connector included





Pinout	RS232	RS422
1	GND	GND
2	RX-	RX-
3	RX+	RX+
4	RX-	RX-
5	RX+	RX+

	Non-isolated RS-485 DTE port. Includes ESD protection and built- in surge protection.	
Support Protocols	Do-more! Protocol (Default) Modbus RTU (Master & Slave) K-Sequence (Slave) ASCII (In & Out) Custom Protocols	
Data Rates	1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200	
Default Settings	115200bps, No Parity, 8 Data Bits, 1 Stop Bit, Station #1, termination resistor OFF	
RS-485 Station Addresses	1-247	
Port Status LED	Green LED is illuminated when active for TXD and RXD	
DIP Switch	Selectable 120Ω termination resistor	
Cable Options	Recommend L19827-XXX from AutomationDirect.com	
Replacement Connectors	BX-RTB03S from AutomationDirect.com	

BX-P-SER2-TERMFC Specifications



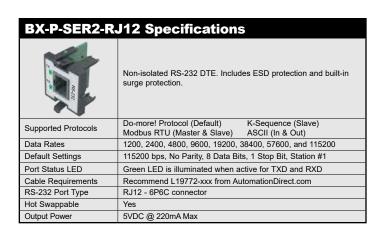
Replacement Connectors BX-RTB05S from AutomationDirect.com

Yes

Hot Swappable

889 E	Includes ESD protection and built-in surge protection.
Support Protocols	Do-more! Protocol (Default) K-Sequence (Slave) Modbus RTU (Master & Slave) ASCII (In & Out)
Data Rates	1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200
Default Settings	RS232, 115200bps, No Parity, 8 Data Bits, 1 Stop Bit, Station #1
Port Status LED	Green LED is illuminated when active for TXD and RXD
Port Type	5-pin terminal strip 3.5mm pitch
RS-232 TXD	RS-232 Transmit output
RS-232 RXD	RS-232 Receive input
RS-232 GND	Logic ground
RS-232 CTS	RS-232 Clear to Send input
RS-232 RTS	RS-232 Request to Send output
RS-232 Maximum Output Load (TXD/RTS)	3kΩ, 1000 pf
RS-232 Minimum Output Voltage Swing	+/-5 VDC
RS-232 Output Short Circuit Protection	+/-15ma
Cable Requirements	Recommend RS-232 use L19853-XXX from AutomationDirect com

BX-P-SER422-	TERM Specifications
\$ 0.5 f. 5.5 f.	Non-isolated Serial port that can communicate via RS-422. Includes ESD protection and built-in surge protection.
Support Protocols	Do-more! Protocol (Default) K-Sequence (Slave) Modbus RTU (Master & Slave) ASCII (In & Out)
Data Rates	1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200
Default Settings	RS422, 115200bps, No Parity, 8 Data Bits, 1 Stop Bit, Station #1
Port Status LED	Green LED is illuminated when active for TXD and RXD
Port Type	5-pin terminal strip 3.5mm pitch
RS-422 Station Addresses	1-247
RS-422 TXD-/RXD-	RS-422 transceiver low
RS-422 GND	Logic ground
RS-422 Input Impedance	96kΩ
RS-422 Maximum Load	50 transceivers, 19kΩ each, 120Ω termination
RS-422 Output Short Circuit Protection	+/-250mA, thermal shut-down protection
RS-422 Minimum Differential Output Voltage	$2.0~\text{VDC}$ with 54Ω load
RS-422 Maximum Common Mode Voltage	-7.5-12.5 VDC
RS-422 Fail Safe Inputs	Logic high input state if inputs are unconnected
RS-422 Electrostatic Discharge Protection	+/-15KV human body, +/-6KV contact discharge per IEC61000-4-2
Cable Requirements	Recommend RS-422 use L19853-XXX from AutomationDirect.com
Replacement Connectors	BX-RTB05S from AutomationDirect.com
Hot Swappable	Yes

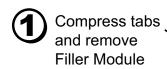


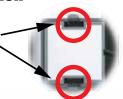


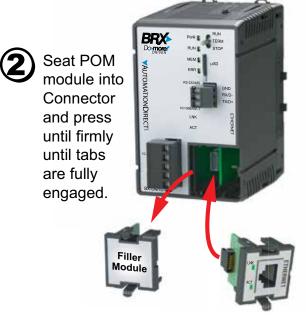
6-pin RJ12 Female . Modular Connector

	Signal
0V	Power (-) connection (GND)
5V	Power (+) connection (220mA max)
RXD	Receive Data (RS-232)
TXD	Transmit Data (RS-232)
RTS	Request to Send (RS-232)
CTS	Clear to Send (RS-232)
	5V RXD TXD RTS

POM Module Installation







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