

AutomationDirect » BRX

Expandable I/O



Performance at a Low Cost

The new BRX controller redefines what it means to be a PLC. Programmable Logic Controller - sure, but for BRX we prefer Performance at a Low Cost. You won't find a micro PLC with this many features, at this price, and with the Do-more can-do attitude anywhere else! This under-budget overachiever was designed and is manufactured in the U.S. and comes with built-in data logging, versatile motion control, on-board serial communication with Ethernet option, an additional hot-swappable communications port, and integrated discrete, high-speed, and analog I/O (select models). Four form factors are available to choose from with various built-in I/O configurations; the BRX PLC units are also expandable with up to 8 additional I/O modules (depending on model). All BRX CPUs have a micro-SD memory card slot and support high speed pulse inputs and outputs.

**TWO
YEAR
WARRANTY**

FREE SOFTWARE
with simulator

Do-more
DESIGNER

"The Do-More software is more user friendly than any I have ever used before. PID, Modbus communications, Filters etc... All very easy to use!"
SK in ENDEBERG, BC

UP TO 36 BUILT-IN DISCRETE I/O POINTS

INTEGRATED HIGH-SPEED I/O

MOTION CONTROL INCLUDED

ADVANCED INSTRUCTIONS

INTERNAL RAM AND microSD DATA LOGGING

ONBOARD SERIAL/ETHERNET COMM PORTS (most models)

HOT-SWAPPABLE COMM PORT (OPTIONAL)

ONBOARD ANALOG (select models)

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DC Power CPU Part Number	DI	DO	RO	AI	AO	AC Power CPU Part Number	Notes	Terminal Block Required - Extra	ZL QTY Needed	Ziplink Cables Option vs TB
BX-DM1-10ED1-D	6AC/DC	4 Sink					Supports 2 Expansion Modules	BX-RTB 10 (-1) (-2)	1	ZL-BX-CBL20 (-1) (-2)
BX-DM1-10ED2-D	6AC/DC	4 Source					Supports 2 Expansion Modules	BX-RTB 10 (-1) (-2)	1	ZL-BX-CBL20 (-1) (-2)
BX-DM1-10ER-D	6AC/DC		4 Relay				Supports 2 Expansion Modules	BX-RTB 10 (-1) (-2)	1	ZL-BX-CBL20 (-1) (-2)
BX-DM1-10AR-D	6AC		4 Relay				Supports 2 Expansion Modules	BX-RTB 10 (-1) (-2)	1	ZL-BX-CBL20 (-1) (-2)
BX-DM1-18ED1-D	10AC/DC	8 Sink				BX-DM1-18ED1	Supports 4 Expansion Modules	BX-RTB 18 (-1)	2	ZL-BX-CBL-15 (-1) (-2)
BX-DM1-18ED2-D	10AC/DC	8 Source				BX-DM1-18ED2	Supports 4 Expansion Modules	BX-RTB 18 (-1)	2	ZL-BX-CBL-15 (-1) (-2)
BX-DM1-18ER-D	10AC/DC		8 Relay			BX-DM1-18ER	Supports 4 Expansion Modules	BX-RTB 18 (-1)	2	ZL-BX-CBL-15 (-1) (-2)
	10AC		8 Relay			BX-DM1-18AR	Supports 4 Expansion Modules	BX-RTB 18 (-1)	2	ZL-BX-CBL-15 (-1) (-2)
BX-DM1-38ED1-D	20AC/DC	16 Sink				BX-DM1-38ED1	Supports 4 Expansion Modules	BX-RTB 36 (-1)	4	ZL-BX-CBL-15 (-1) (-2)
BX-DM1-38ED2-D	20AC/DC	16 Source				BX-DM1-38ED2	Supports 4 Expansion Modules	BX-RTB 36 (-1)	4	ZL-BX-CBL-15 (-1) (-2)
BX-DM1-38ER-D	20AC/DC		16 Relay			BX-DM1-38ER	Supports 4 Expansion Modules	BX-RTB 36 (-1)	4	ZL-BX-CBL-15 (-1) (-2)
	20AC		16 Relay			BX-DM1-38AR	Supports 4 Expansion Modules	BX-RTB 36 (-1)	4	ZL-BX-CBL-15 (-1) (-2)
BRX CPUs with Ethernet										
BX-DM1E-10ED13-D	6AC/DC	4 Sink		(1) mA/V	(1) mA/V		Supports 2 Expansion Modules	BX-RTB 10 (-1) (-2)	1	ZL-BX-CBL20 (-1) (-2)
BX-DM1E-10ED23-D	6AC/DC	4 Source		(1) mA/V	(1) mA/V		Supports 2 Expansion Modules	BX-RTB 10 (-1) (-2)	1	ZL-BX-CBL20 (-1) (-2)
BX-DM1E-10ER3-D	6AC/DC		4 Relay	(1) mA/V	(1) mA/V		Supports 2 Expansion Modules	BX-RTB 10 (-1) (-2)	1	ZL-BX-CBL20 (-1) (-2)
BX-DM1E-10AR3-D	6AC		4 Relay	(1) mA/V	(1) mA/V		Supports 2 Expansion Modules	BX-RTB 10 (-1) (-2)	1	ZL-BX-CBL20 (-1) (-2)
BX-DM1E-18ED13-D	10AC/DC	8 Sink		(1) mA/V	(1) mA/V	BX-DM1E-18ED13	Supports 8 Expansion Modules	BX-RTB 18 (-1)	2	ZL-BX-CBL-15 (-1) (-2)
BX-DM1E-18ED23-D	10AC/DC	8 Source		(1) mA/V	(1) mA/V	BX-DM1E-18ED23	Supports 8 Expansion Modules	BX-RTB 18 (-1)	2	ZL-BX-CBL-15 (-1) (-2)
BX-DM1E-18ER3-D	10AC/DC		8 Relay	(1) mA/V	(1) mA/V	BX-DM1E-18ER3	Supports 8 Expansion Modules	BX-RTB 18 (-1)	2	ZL-BX-CBL-15 (-1) (-2)
	10AC		8 Relay	(1) mA/V	(1) mA/V	BX-DM1E-18AR3	Supports 8 Expansion Modules	BX-RTB 18 (-1)	2	ZL-BX-CBL-15 (-1) (-2)
BX-DM1E-38ED13-D	20AC/DC	16 Sink		(4) mA/V	(2) mA/V	BX-DM1E-38ED13	Supports 8 Expansion Modules	BX-RTB 36 (-1)	4	ZL-BX-CBL-15 (-1) (-2)
BX-DM1E-38ED23-D	20AC/DC	16 Source		(4) mA/V	(2) mA/V	BX-DM1E-38ED23	Supports 8 Expansion Modules	BX-RTB 36 (-1)	4	ZL-BX-CBL-15 (-1) (-2)
BX-DM1E-38ER3-D	20AC/DC		16 Relay	(4) mA/V	(2) mA/V	BX-DM1E-38ER	Supports 8 Expansion Modules	BX-RTB 36 (-1)	4	ZL-BX-CBL-15 (-1) (-2)
	20AC		16 Relay	(4) mA/V	(2) mA/V	BX-DM1E-38AR3	Supports 8 Expansion Modules	BX-RTB 36 (-1)	4	ZL-BX-CBL-15 (-1) (-2)
BRX CPU with Ethernet, no on-board I/O										
BX-DM1E-M-D						BX-DM1E-M	CPU Only (no on-board I/O) Supports 8 Expansion Modules			
BRX Expansion Modules										
DC Modules	DI	DO	RO	AI	AO	AC Modules	Notes	Terminal Block Required - Extra	ZL QTY Needed	Ziplink Cables Option vs TB
BX-08ND3	8 DC						12-24VDC Sink / Source	BX-RTB08 (-1)	1	ZL-BXEM-CBL10 (-1) (-2)
BX-12ND3	12 DC						12-24VDC Sink / Source	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
BX-18ND3	16 DC						12-24VDC Sink / Source	BX-RTB 10 (-1)	1	ZL-BXEM-CBL20 (-1) (-2)
BX-08NF3	8 DC						3-5 VDC Sink / Source	BX-RTB08 (-1)	1	ZL-BXEM-CBL10 (-1) (-2)
	8AC					BX-08NA	120-240 VAC	BX-RTB08 (-1)	1	ZL-BXEM-CBL10 (-1) (-2)
	12AC					BX-12NA	120-240 VAC	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
	16AC					BX-18NA	120-240 VAC	BX-RTB 10 (-1)	1	ZL-BXEM-CBL20 (-1) (-2)
	8AC					BX-08NB	12-24 VAC	BX-RTB08 (-1)	1	ZL-BXEM-CBL10 (-1) (-2)
	12AC					BX-12NB	12-24 VAC	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
	16AC					BX-18NB	12-24 VAC	BX-RTB 10 (-1)	1	ZL-BXEM-CBL20 (-1) (-2)
BX-08TR 8			5 Isolated				5-48VDC / 24-240VAC 2A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
		8				BX-08TA	120-240 0.5A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL10 (-1) (-2)
BX-08TD1		8 Sink					12-24 VDC 0.5A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL10 (-1) (-2)
BX-08TD2		8 Source					12-24 VDC 0.5A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL10 (-1) (-2)
BX-08TR			8 Relay				5-48VDC / 24-240VAC 2A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL10 (-1) (-2)
		12				BX-12TA	120-240 VAC 0.5A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
BX-12TD1		12 Sink					12-24VDC 0.5A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
BX-12TD2		12 Source					12-24VDC 0.5A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
BX-12TR			12 Relay				5-48VDC / 24-240VAC 2A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
BX-16TD1		16 Sink					12-24 VDC 0.5A/PT	BX-RTB 10 (-1)	1	ZL-BXEM-CBL20 (-1) (-2)
BX-16TD2		16 Source					12-24 VDC 0.5A/PT	BX-RTB 10 (-1)	1	ZL-BXEM-CBL20 (-1) (-2)
BX-16TR			16 Relay				5-48VDC / 24-240VAC 2A/PT	BX-RTB 10 (-1)	1	ZL-BXEM-CBL20 (-1) (-2)
BX-08CD3R	4 DC		4 Relay				DC In / Relay Out - 2A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL10 (-1) (-2)
BX-12CD3D1	8 DC	4 Sink					DC In / DC Out - 0.5A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
BX-12CD3D2	8 DC	4 Source					DC In / DC Out - 0.5A/PT	BX-RTB08 (-1)	1	ZL-BXEM-CBL15 (-1) (-2)
BX-16CD3D1	8 DC	8 Sink					DC In / DC Out - 0.5A/PT	BX-RTB 10 (-1)	1	ZL-BXEM-CBL20 (-1) (-2)
BX-16CD3D2	8 DC	8 Source					DC In / DC Out - 0.5A/PT	BX-RTB 10 (-1)	1	ZL-BXEM-CBL20 (-1) (-2)
BX-08AD-1				8 mA			0-20mA, 16 Bit	BX-RTB 10 (-1)		
BX-08AD-2B				8 Voltage			0-5 or 0-10 VDC, 16 Bit	BX-RTB 10 (-1)		
BX-08DA-1					8 mA		0-20mA, 16 Bit	BX-RTB 10 (-1)		
BX-08DA-2B					8 Voltage		0-5 or 0-10 VDC, 16 Bit	BX-RTB 10 (-1)		
BX-04THM				4 TIC			16 Bit	Included		
								No ext = 90 deg screw		Ziplink modules
								(-1) = 180 deg spring		ZL-RTB20 (-1)
								(-2) = 180 deg screw		