**General Specifications**

- Temperature Range: 5°C to 50°C (41°F to 122°F)
- Humidity: 10% to 90% (non-condensing)
- Environmental Air Flow: 1 m³/min (175 CFM)
- Expansion Modules: 4
- Real Time Clock Accuracy: ±0.25s in 12 months;
- Programming Software: Do-more Designer
- Status Indicator: LED
- SD Card: Installed and Mounted
- CPU Mode: STOP
- Low Battery
- RS-232/RS-485 Serial Port
- CPU Status Indicators: Power-On, Error, Remote Ready

**Power Supply Specifications**

- Voltage: 120-240 VAC
- Input Voltage Range: 85-165 VAC
- Rated Operating Frequency: 47–63 Hz
- Maximum Input Power: 40VA
- Cold Start Inrush Current: 1.23″ (650 mA)
- Internal Input Fuse Protection: Micro fuse 250V, 2A Non-replaceable
- Power Supply Specifications: 264 VAC, 47–63 Hz
- Power Efficiency: >95%
- EMI/EMC: CE Compliant EN61131-2

**Terminals Block Connection Options**

- BX-RTB36: Terminal block kit, 90-degree screw type, fits all BXR 20-pin PLCs. Kit includes (12) 5-pin 5mm terminal blocks.
- BX-RTB36S: Terminal block kit, 180-degree screw clamp type, fits all BXR 20-pin 36-pin PLCs. Kit includes (12) 5-pin 5mm terminal blocks.
- ZL-BX-CBL15: ZLIN PLC I/O cable, 15-pin terminal block to 24-pin connector, ZAWG, 0.5 meter (1.6 ft), 4 required.
- ZL-BX-CBL15-1: ZLIN PLC I/O cable, 15-pin terminal block to 24-pin connector, ZAWH, 1 meter (3.3 ft), 4 required.
- ZL-BX-CBL15-2: ZLIN PLC I/O cable, 15-pin terminal block to 24-pin connector, ZAWG, 2 meter (6.6 ft), 4 required.
- ZL-BX-CBL15-15: ZLIN PLC I/O cable, 15-pin terminal block to 24-pin connector, ZAWG, 15 meter (49 ft), 4 required.
- ZL-BX-CBL15-2P: ZLIN PLC I/O cable, 15-pin terminal block to 24-pin connector, ZAWG, 2 meter (6.6 ft), 4 required.
- ZL-RTB20: ZLIN Two-Level Feedthrough Module, 20 pole, 35mm DIN mount, 4 required.
- ZL-RTB220-1: ZLIN Three-Level Feedthrough Module, 20 pole, 35mm DIN mount, 4 required.

**CPU Specifications**

- Processor: H8/367 memory
- User Memory Type: Battery-backed RAM, user-configurable
- Pluggable Option Module: RS-232, RS-485, Ethernet 10/100 BASE-T (1 Mbps, 10 Mbps, 100 Mbps), USB 2.0 Type B
- Expansion Modules: 4
- Real Time Clock Accuracy: ±0.25s per day at 25°C
- Programming Software: Do-more Designer – Ver. 2 or higher
- Custom Label Window Size: 0.95x2.25 (19mm x 57mm)

**Built-in RS-232/485 Port Specifications**

- Description: Non-isolated serial port that can communicate via RS-232 or RS-485 (software selectable).
- Supported Protocols: Modbus RTU (Master & Slave), K-Sequence (Slave)
- 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 ID
- Port Type: 3-pin terminal strip 3.5mm pitch
- Port Status LED: Green LED is illuminated while active for TXD and RXD
- Replacement Connector: ADC Part B # BX-RTB36

**CPU Mode Switch Functions**

- RUN position: CPU is forumed into RUN Mode if no errors are encountered.
- TERM position: RUN, PROGRAM and DEBUG modes are available. In this mode, the mode of operation can be changed through the user interface.
- STOP position: CPU is forumed into STOP Mode.

**Dimensions Information**

- Width: 3.59″ (91.5mm)
- Height: 1.84″ (47mm)
- Depth: 1.23″ (31.2mm)

**Mounting Restrictions**

- Wire Duct: 1 2″ (50mm)
- Enclosure: 1 2″ (50mm)
- Terminal Block: 1 2″ (50mm)

**I/O Terminal Blocks sold separately. (See Terminal Block Connection Options table).**

**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 AutomationDirect Technical Support at 1-800-854-4420.

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**CPU Status Indicators**

- LED: Power-On, Error, Remote Ready

**Does not include:**

- Mounts EMC and Safety requirements. See the D.O.C. for details.

**Document Name**

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