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## Allen-Bradley 1763-L16BWA

# ALLEN BRADLEY MICROLOGIX 1100 Controller Module User Manual

Model: 1763-L16BWA, Series B

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the ALLEN BRADLEY 1763-L16BWA MicroLogix 1100 Controller Module, Series B. The MicroLogix 1100 is a compact, powerful, and cost-effective programmable controller designed for a wide range of industrial applications. It features integrated Ethernet/IP for peer-to-peer messaging, web server capabilities, and email functionality, along with an embedded LCD display for monitoring controller status and I/O. Adherence to the instructions in this manual is crucial for safe and efficient operation.

## 2. PRODUCT OVERVIEW

The MicroLogix 1100 controller integrates a processor, power supply, and I/O in a single compact unit. It supports various communication options and includes an LCD display for direct interaction and diagnostics.



Figure 2.1: Front view of the MicroLogix 1100 Controller Module, showing the LCD display, navigation buttons, and terminal blocks.



Figure 2.2: Top view of the MicroLogix 1100 Controller Module, highlighting the input and output terminal blocks for wiring connections.

### 3. SETUP AND INSTALLATION

#### 3.1 Safety Precautions

- Ensure power is disconnected before installation or wiring.
- Follow all local and national electrical codes.
- Only qualified personnel should perform installation and wiring.
- Protect the module from excessive heat, moisture, and vibration.

#### 3.2 Mounting

The MicroLogix 1100 controller can be mounted on a DIN rail or panel mounted using screws. Ensure adequate ventilation space around the module for proper heat dissipation.



Figure 3.1: Bottom view of the MicroLogix 1100 Controller Module, illustrating the mounting tabs for secure installation.

#### 3.3 Wiring

Connect power to the designated terminals. The module accepts 100-240 VAC, 50-60 Hz. Connect input and output devices to their respective terminals. Refer to the wiring diagram provided with your specific system documentation for detailed connections.

**Important:** Do not connect the RS-232/RS-485 Combo port directly to any other MicroLogix controller Channel 0 (RS-232) port or the 1747-DPS (Port Splitter) network. Doing so will cause permanent damage to the combo port on the MicroLogix 1100.



Figure 3.2: Rear view of the MicroLogix 1100 Controller Module, displaying the communication ports and a critical warning label regarding port connections.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On

Once wired, apply power to the module. The POWER indicator LED should illuminate. The LCD display will show the boot sequence and then the operational status.

### 4.2 LCD Display and Navigation

The integrated LCD display allows for monitoring controller status, I/O status, and minor configuration adjustments without a computer. Use the ESC, OK, and arrow keys to navigate through the menus.

- **ESC:** Used to go back to the previous menu or cancel an operation.
- **OK:** Used to select an option or confirm an action.
- **Arrow Keys:** Used to navigate through menu options or adjust values.

### 4.3 Programming

The MicroLogix 1100 is programmed using Rockwell Software's RSLogix 500 programming software. Connect to the controller via Ethernet/IP or the serial port. Refer to the RSLogix 500 documentation for detailed programming instructions.

## 5. MAINTENANCE

The MicroLogix 1100 controller is designed for robust industrial environments and requires minimal routine maintenance. However, periodic checks are recommended to ensure optimal performance and longevity.

- **Cleaning:** Keep the module clean and free of dust and debris. Use a soft, dry cloth. Do not use solvents or abrasive

cleaners.

- **Connections:** Periodically check all wiring connections for tightness and signs of corrosion.
- **Ventilation:** Ensure that ventilation openings are not obstructed to prevent overheating.
- **Firmware Updates:** Check the manufacturer's website for available firmware updates. Follow official procedures for any updates.

## 6. TROUBLESHOOTING

This section provides solutions to common issues encountered with the MicroLogix 1100 controller.

Problem	Possible Cause	Solution
Controller not powering on.	No power supply; incorrect wiring; faulty power supply.	Verify power connections; check power source; test power supply.
FAULT LED is illuminated.	Program error; hardware fault; I/O wiring issue.	Check controller diagnostics via LCD or RSLogix 500; inspect wiring; review program logic.
Cannot establish communication.	Incorrect communication settings; faulty cable; network issue.	Verify IP address/serial settings; check cable integrity; ensure network connectivity.

For more complex issues, consult the detailed troubleshooting guides available on the Allen-Bradley support website or contact technical support.

## 7. SPECIFICATIONS

Detailed technical specifications for the ALLEN BRADLEY 1763-L16BWA MicroLogix 1100 Controller Module.



Figure 7.1: Product label showing model number, series, and electrical specifications.

Attribute	Value
Model Number	1763-L16BWA
Series	SER B
Manufacturer	ALLEN BRADLEY
Product Dimensions (L x W x H)	4.25 x 4.25 x 3.25 inches
Weight	2.33 Pounds
Input Voltage (Line)	100-240 VAC, 50-60 Hz, 52 VA MAX.
DC Inputs	24 VDC
Contact Ratings (AC)	C300
Contact Ratings (DC)	R150
Operating System Information	FRN 8.0
Date First Available	June 11, 2020

## 7.1 Product Identifiers

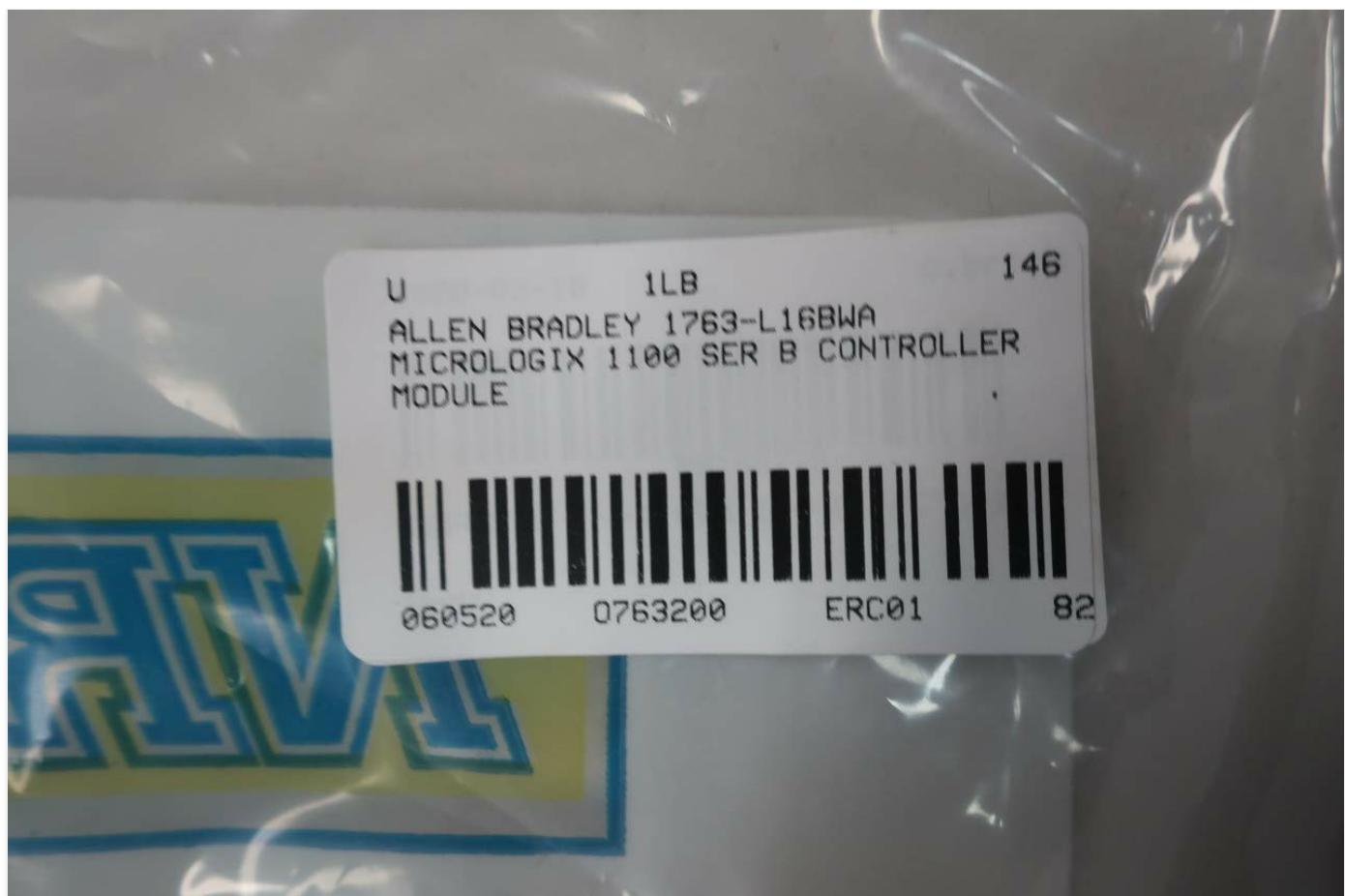


Figure 7.2: Product packaging label showing the model number and barcode.

- **Product Code:** 3L16BWA\*\*BB\*852082630 (from product label)
- **Internal Code:** 763200 (from packaging label)

## 8. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, and service, please refer to the official Allen-Bradley (Rockwell Automation) website or contact your authorized distributor. Ensure you have your product model number (1763-L16BWA) and serial number ready when seeking support.

Official support resources typically include:

- Online knowledge base and FAQs
- Technical documentation and downloads
- Customer support contact information
- Service and repair options

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