

# MLC-RIO-T REMOTE I/O CONTROLLER

**Abba Logic**

**PLC Based Access Control**



## It's the world's smallest PLC.

The MLC-RIO-T is an fully intelligent distributed processing PLC Controller, just run data and power cables. It was designed for remote installation at or near the field devices. When used for security applications, it can fit into the door jam and control all the devices a secured door might need; Door Lock, DPS, Rex, Slider motor (open and close), and control intercom or paging circuits.

The RIO stands for Remote I/O as it supports 6 inputs, 2 dry-C outputs, 2 audio relays, and a connection to an intercom bus. The integrated Echelon communications scheme brings IP connectivity, reliability, inter-panel communications, and high addressability. The Echelon communications allow for up to 300 meters of cabling in a free topology configuration.

The inputs, and outputs can be configured in any shape or form to meet special conditions for opening a door, Sally ports, or programming interlocked doors.

This is a perfect fit for distributed control of detention movement doors, cell doors, or any other facility control you may need.

## MAIN FEATURES

Programming structure is full drag-and-drop Ladder Logic functionality through Abba Logic MASC software platform. Program code is stored in non-volatile Flash Memory with more than 200 instructions per controller for robust control algorithms. Ladder Logic programming is the method of choice for most electricians and installation technicians.

The RIO comes with terminal blocks down either side and can be flush mounted or Din Rail mounted.

The RIO has an internal real-time clock and ram battery backup for transaction-buffer, time stamping, and data retention. All communications are supervised and will automatically buffer and unbuffer when communicating with the host computer.

- ◆ Intelligent Distributed Processing
- ◆ 12-30v AC OR DC 1.5A MAX
- ◆ 6 Programmable Input Points (N/O, N/C, Supervised, or Analog)
- ◆ 2 Five-amp Output Relays (Relays fused @ 125v 5A)
- ◆ 2 Audio Relays
- ◆ Ladder logic Programming
- ◆ LonTalk™ 78 KBPS bus
- ◆ Wired in star, or buss
- ◆ Peer-to-peer Communications to other units over network
- ◆ Real Time Clock operation
- ◆ IP or USB Connectivity
- ◆ UL registered component

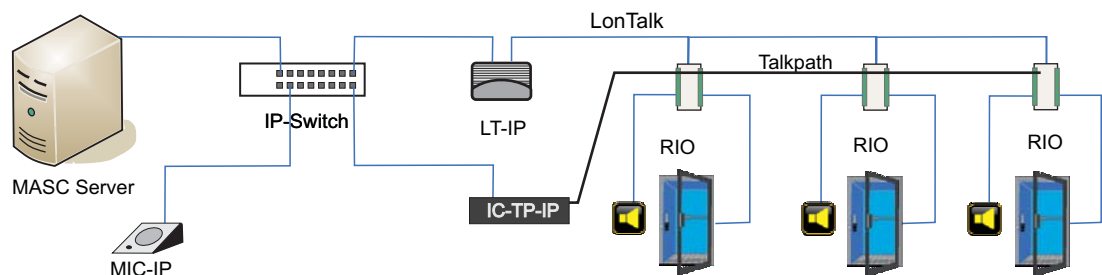
# MLC-RIO-T MASC LOGIC CONTROLLER

**Abba Logic**

Part Numbers for Ordering	
MLC-RIO-T	MLC-RIO Logic Controller
RIO-FUSE	5 Amp Fuse
LT-IP	IP adapter, Din Rail mount
LT-USB	USB Adapter



Pictured without Cover



## Specifications:

### Power

- ◆ 12-30 v AC OR DC, 200 mA base draw
- ◆ 1.5A Max draw available for other devices
- ◆ Power Selectable via Jumpers
- ◆ Optional, 3.5 VDC Memory Bat
- ◆ Configuration stored to Flash ROM

### Inputs/Outputs

- ◆ 2 Single-Pole Double Throw Form-C Contacts @ 120VAC or 30VDC, 8 Amps
- ◆ 2 Audio Relays @ 2A 60 Watts
- ◆ LED Status of 4 Outputs
- ◆ Individually Fused @ 5 Amps
- ◆ 6 Programmable Inputs, N/O, N/C, Supervised, or Analog
- ◆ LED Status of 6 Inputs

### ABBA LOGIC LLC

Tel: (262) 634-4566  
www.abbalogic.com

### Data

- ◆ 78KBPS Free Topology twisted pair transceiver using Echelon Lon-Talk Protocol provide Host communications and Peer-to-Peer communications.
- ◆ Only 1 IP adapter is required per trunkline
- ◆ Intercom Master can be hardwired or supported through an IP connection

### Operating Temperature

- ◆ -20° to 85° C
- ◆ -4° to 150° F
- ◆ 95% Humidity (non-condensing)
- ◆ Indoor use only

### Dimensions

- ◆ US 2.44"W x 5.41"L x 1.52" H
- ◆ Metric 62 W x 138 L x 39 H mm

*Lon-Talk and Lon-Works are registered trademarks of the Echelon Corporation  
Notice: MAC-4R-NV specifications are subject to change without notice*