

# MLC-16R-NV

## LOGIC CONTROLLER (SPLC)

**Abba Logic**

**PLC Based Access Control**

**So what's a SPLC?** It's a fully Programmable Logic Controller (SPLC) with distributed intelligence. Each controller has its own processor and makes its own decisions. Ladder logic programming is stored in every controller to perform as a Smart (S)PLC. It's flexible, dependable and easy to program.



The advantages here are simple. Because every controller has its own processing power, the system can continue to grow without losing performance. This also brings the single point of failure down to one controller.

Equipment can be spread out into multiple wiring closets so home run cabling is not required. This can save tens of thousands of dollars during installation.

The Echelon communications network provides fast peer-to-peer communications between controllers; where one controller can control other controllers on the same network. The family of products includes a variety of

**- It's a PLC, no it's better than a PLC. It's a SPLC.**

## MAIN FEATURES

The MLC-16R supports 16 single-pole, double throw Form-C contacts rated at 120 VAC, 30 VDC @ 6 amps. The rugged construction provides 5 amp fusing for every relay with traces sized for 10 amps. 125 VAC. LED status indicators provide visual status of the point. Up to 7 controllers can be rack mounted in the ENC-RM enclosure (Provided Separately).

All Points are programmable and can be used to activate or trigger other points. Program information is stored in non-volatile flash memory. More than 500 instructions are allowed. Programming structure is drag-n-drop full function ladder logic with over 50 different ladder commands. The system battery maintains the configuration data for a minimum of 6 months on power failure. The Real-Time clock provides for timing down to the second. If for some reason the controller is unable to transmit the events to the host PC the controller's FIFO buffer will store the last 800 transactions.

- ◆ 16 Single-Pole Double Throw Form-C Contacts
- ◆ Contacts Rated @ 250VAC, 30VDC 6 Amps
- ◆ Individually Fused at 5 Amps
- ◆ LED Status indicators
- ◆ Stand Alone Processor
- ◆ Programming Stored in Flash
- ◆ Lon-Talk FT - 78KBPS
- ◆ Peer-to-Peer Control
- ◆ Rack Mount Design
- ◆ Graphical Ladder Programming
- ◆ IP or USB Connectivity
- ◆ Real-Time Clock
- ◆ Echelon PLC Control
- ◆ Echelon Lighting Control

# MLC-16R-NV LOGIC CONTROLLER (SPLC)

**Abba Logic**

| Part Numbers for Ordering |   |
|---------------------------|---|
| MLC-16R-NV                | MLC-16R Relay Controller W/MPU (SNVT Version) |
| MPU-16-NV                 | Master Processing Unit for 16R (SNVT Version) |
| MLC-16R-NV-PCB            | MLC-16R Relay Controller Only                 |
| ENC-RM                    | Rack Assembly for MLC Controllers             |
| PWR-RM                    | 12VDC Power Supply for Rack                   |
| LT-EA-10                  | iLon-10 Ethernet Adapter                      |
| LT-USB                    | USB Adapter                                   |



## ABBA LOGIC LLC

3816 - 15th St, Racine, WI 53405  
Tel: (262) 634-4566  
[www.abbalogic.com](http://www.abbalogic.com)

## Specifications:

### Power

- ◆ 12-18 VDC @ 640 mA Max
- ◆ 12 VDC when powered by Battery
- ◆ 3.5 VDC @ 350 mAH Memory Bat
- ◆ ENC-RM is 12VDC Power Supply Rated @ 6.5 Amps

### Outputs

- ◆ 16 Single-Pole Double Throw Form-C Contacts @ 120VAC or 30VDC, 6 Amps
- ◆ Individually Fused @ 5 Amps
- ◆ LED Status Indicators
- ◆ Peer-to-Peer Communications

### Data

- ◆ 78KBPS Free Topology twisted pair transceiver using Echelon Lon-Talk Protocol provide Host communications and Peer-to-Peer communications.
- ◆ SNVT Support

### Operating Temperature

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

### Dimensions

- ◆ PCB Board, 4.5"W x 11"H x 1" D
- ◆ ENC-RM 16" W x 16" H x 6.75" D

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Notice: MAC-4R-NV specifications are subject to change without notice