

# LM3000 Series

## Logic Net® - Control Unit



- **Reliable and rugged**
- **Compact 1.0”h x 6.3”w x 5.1”d form factor**
- **Configurable for zero single-point-of-failure**
- **LEDs indicate location of network breakage or network station failure**
- **Controls communications between application software on PC & network stations**
- **Communicates with PC via either Ethernet, USB or RS232 connection**
- **Drives RS485 multi-drop network of I/O stations**
- **Connects up to 16 LS3000 stations, or more with vendor-provided customization**
- **Distance of up to 4000ft between LM3000 and LS3000 stations**
- **High security**
- **Simple to install, maintain and upgrade**
- **Embedded custom functions and firmware upgrades easily added by remote downloading**
- **Windows-based development tool and demo application available for qualified customers**
- **Compatible with all operating systems**

### Cost Effective

Logic Net® modules can replace costly PC workstations, network hubs and network software. To add more stations, simply increase the number of LS3000 module connected to one LM3000 control modules. No special interface cards or additional hardware is required between the LS3000 I/O stations and a multitude of peripheral devices.

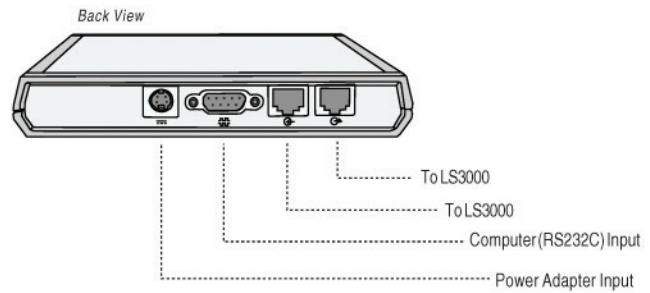
### Reliable and Rugged

The LM3000 control module was designed to meet the most demanding requirements of an industrial network. There are no disk drives, fans or mechanical parts that can easily fail. The enclosure is a heavy-duty zinc die cast case for extra ruggedness. Every module uses snap-to-lock connectors for secure connections. The LM3000 communicates with LS3000 I/Ostations using communications protocols and topologies with proven reliability. It features high common-mode noise rejection network wiring. The poll/select protocol functionality avoids data collision, and the cyclic redundant checks virtually eliminate all communication errors. A zero single-point-of-failure configuration is also supported. LM3000 connections provide for a redundant data path to prevent network interruption due to a line breakage. The LM3000 has low power consumption that results in low internal temperature rise for higher mean time between failure. In addition, the units are tamper proof, with no on/off or selection switches and no adjustable devices.

### Ultra Compact

The LM3000 has a very compact form factor – only 1.0”h x 6.3”w x 5.1”d. Two mounting brackets enable these modules to be mounted almost anywhere – on a wall, ceiling, table top or under a counter. This enables it to be used in a variety of applications – on a production line, in a restaurant’s kitchen system, etc. – despite severe space constraints.

# LM3000 SERIES CONTROL UNIT SPECIFICATIONS



## INTERFACE

To Server LM3000 LM3000E LM3000U	RS232C 115.2k bps Ethernet (10m bps) USB
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To LS3000 Baud rate Error checking	RS483 115.2k bps full duplex CRC
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## ELECTRICAL (Power Adapter)

Input	100 to 240VAC
Input frequency	47 to 63 Hz
Input current	< 100mA @ 120VAC
Output	+5VDC / 2.0A
Output current	< 1A
Ripple voltage	< 100mVp-p



## MECHANICAL

Weight	2.15lbs
Dimension (inches)	6.3W x 5.1D x 1.0H

## ENVIRONMENT

Operating temperature	5°C to 40°C
Relative humidity	8 to 80%, non-condensing
Storage temperature	0°C to 60°C
Relative humidity	5 to 80%, non-condensing

## CONNECTORS

General	Connectors to be latched/strain relief
RS232	9 pin straight thru shielded DB9 male connector
Ethernet	8 pin modular shielded RJ45 connector
USB	Type B USB connector
RS485	8 pin modular shielded RJ45 male connector
DC power	Shielded snap lock mini-DIN with EMI/RFI suppression, male connector