LS3000 Series
Logic Net® - I/O Station

I/O Unit

Cost Effective

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

- Reliable and rugged
- Configurable for zero single-point-of-failure
- Powerful self-diagnostic capabilities
- Compact 1.0"h x 6.3"w x 5.1"d form factor
- Each module can drive multitude of peripheral devices
- Supports long network cable distance and has short wiring configuration
- High security
- Simple to install, maintain and upgrade
- Embedded custom functions, fonts and firmware updates easily added by remote downloading
- Windows-based development tool and demo application available for qualified customers
- Compatible with all operating systems
- Certified with many standards
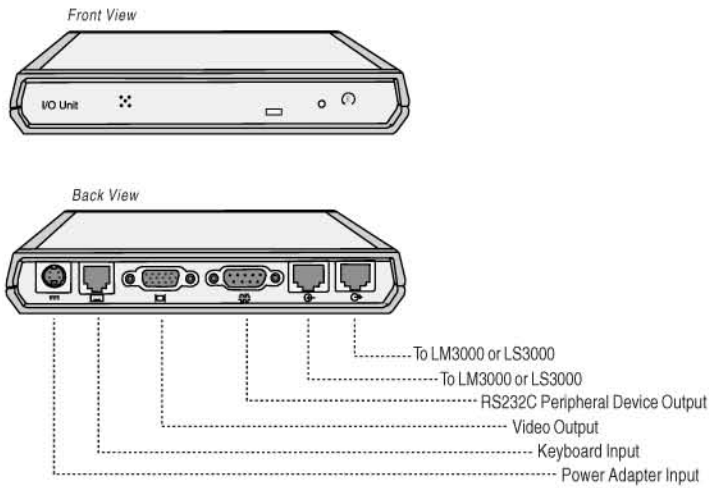- Supports international operation

Reliable and Rugged

The LS3000 I/O station 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 LS3000 communicates with other workstations and the LM3000 control module using network 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. LS3000 connections provide for a redundant data path to prevent network interruption due to a line breakage. The LS3000 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 LS3000 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 wide variety of applications – on a production line, in a restaurant's kitchen system, etc. – despite severe space constraints.

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Connector Assignment

Logic Station (LS3000)

Front View

Back View

I/O Unit

- - - - - To LM3000 or LS3000
- - - - - To LM3000 or LS3000
- - - - - RS232C Peripheral Device Output
- - - - - Video Output
- - - - - Keyboard Input
- - - - - Power Adapter Input

Logic Station (LS3000)

MECHANICAL

Weight	2.25lbs
Dimension (in inches)	6.3W x 1.0H x 5.1D

ELECTRICAL *(Power Adapter)*

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

ENVIRONMENT

Operating temperature	5°C to 40°C
Relative humidity	8 to 80%
Storage temperature	0°C to 60°C
Relative humidity	5 to 80%

INTERFACE

To LM3000 or LS3000	RS485
VGA Port	Standard
Keyboard	PC scan code
Serial Port	RS232C
Baud Rate	2400, 4800, 9600 (default), 19,200
Parity	None
Data Bits	8

CABLES

General	Connectors to be latched/strain relief
RS232	Standard, DB9 female
RS485	8 pin modular shielded RJ45 male connector
VGA Signal	Standard, high density, DB15 male connector
Keyboard	6 pin modular shielded RJ11, male connector
DC Power	Shielded, snap lock mini-DIN with EMI/RFI suppression, male connector

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