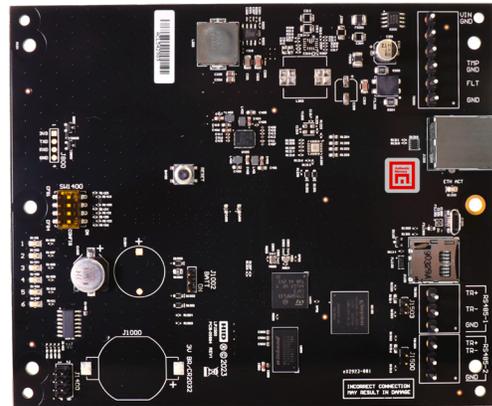


# LNL-M3300

## Intelligent System Controller



### Overview

The LNL-M3300 Intelligent System Controller (ISC) is designed for advanced access control applications. As the access control engine for the OnGuard® system, the ISC provides power and functionality. The ISC can communicate to the host computer in a single- or dual-path Ethernet configuration. Multiple combinations of Input Control Modules, Output Control Modules, and Card Reader Interface Modules (up to 64 devices) can be configured.

Utilizing its native Ethernet communications and a secure 32-bit processor, the LNL-M3300 can communicate upstream to the host computer through its primary Ethernet port. Additionally, the LNL-M3300 offers an optional secondary communications option, through a USB-to-Ethernet connection.

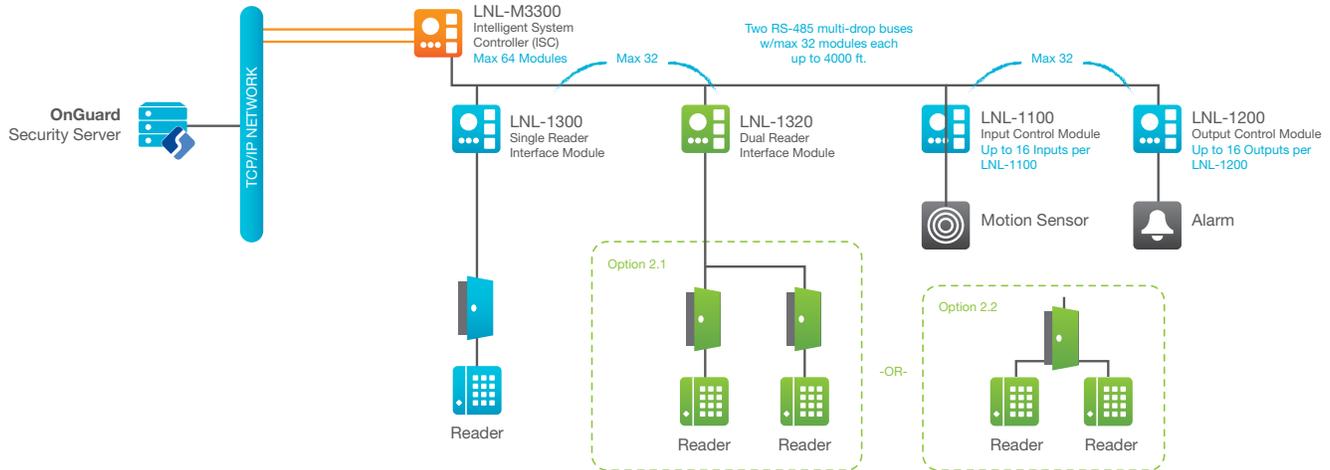
The LNL-M3300 can store up to 500,000 cardholders in non-volatile flash memory, and supports selective download for larger cardholder databases. The two downstream RS-485 2-wire ports can be used to connect up to 64 devices (64 doors) in many combinations of LNL-1100, LNL-1200, LNL-1300, and LNL-1320.

### Features & Functionality

- DHCP and fixed-IP addressing supported
- DNS device naming through DHCP extended commands
- Optional Secondary NIC, USB port (2.0) with optional adapter
- 15 MB of available on-board, non-volatile flash memory
- Super Capacitor backed, non-volatile storage of 500,000 events
- Configurable option for Data at Rest encryption
- Firmware stored in flash memory, background download of firmware updates supported
- 12 or 24 VDC input power
- Supports up to 16 badge formats
- Biometric template storage support
- Up to 32,000 access level permissions
- 255 holidays with grouping
- 255 timezones, each with 6 intervals
- Elevator control support for up to 128 floors
- Supports up to 9-digit user PIN codes
- Status LEDs for heartbeat & battery status, upstream and downstream communication, and memory write status
- Two dedicated inputs for tamper and power-failure status
- Advanced Encryption Standard (AES) 256-bit algorithm for communication to LenelS2 Series 3 reader and I/O modules; AES 128 bit encryption with LenelS2 Series 2 reader and I/O modules
- TLS 1.2 / 1.3 communication to OnGuard
- Support for wireless lock communications hubs from ASSA ABLOY Aperio, Schlage AD400, Schlage Engage, and SimonsVoss Gateways

# LNL-M3300

## System Diagram



## Specifications

The interface is for use in low voltage, Class 2 Circuits only.  
The installation of this device must comply with all local fire and electrical codes.

Primary Power	12 to 24 VDC $\pm$ 10%, 500 mA maximum
Primary Host Communication	Ethernet: 10-BaseT/100Base-TX
Secondary Host Communication	USB port (2.0) with optional adapter: pluggable model USB2-OTGE100
Serial I/O Device	Two each: 2-wire RS-485, 2,400 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit
Inputs	Two non-supervised, dedicated for cabinet tamper and power fault monitoring
Battery	Memory/Clock backup: Super Capacitor (10 days). Optional, 3V Lithium, type BR2330 or CR2330 (battery not included, field installable).
<b>Cable Requirements</b>	
Power and Relays	One twisted pair, 18 to 16 AWG
Ethernet	CAT-5, minimum
RS-485	One twisted pair with drain wire and shield, 120 ohm impedance, 24 AWG, 4,000 ft. (1,219m) maximum
<b>Mechanical</b>	
Dimensions	5.0 W x 6.0 L x 1.0 H in. (127 x 152.4 x 25mm)
Weight	4.1 oz. (115g) nominal
<b>Environmental</b>	
Temperature	-55° to +85° C, storage 0° to +70° C, operating
Humidity	5 to 95% RHNC
Heat Output (BTUs)	at 12 VDC, 20.5 BTU/hr at 24 VDC, 22.9 BTU/hr
Approvals	FCC Part 15, CE, RoHS, UL 294

## Parts and Spare Parts

Part No.	Description
LNL-M3300	15 MB on-board flash memory available for cardholder database; 500,000 event super capacitor backed RAM for event log.
USB2-OTGE100	USB-to-Ethernet converter, for LNL X-Series and M-Series Controllers only. Provides optional Secondary NIC connection. Second NIC should be on different subnet than primary NIC.



LenelS2.com

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Specifications subject to change without notice.

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