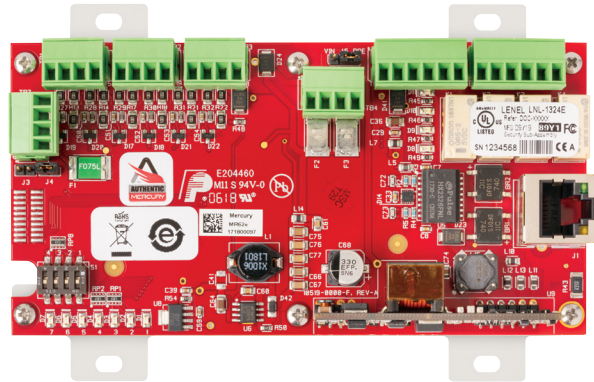


# LNL-1324E

## Flexible Network-Connected Door I/O Module



### Overview

The LNL-1324E is a flexible network-wired hardware module that interfaces readers with Open Supervised Device Protocol (OSDP) for two doors; or acts as an alarm panel (I/O points) to the OnGuard system (version 7.6 or higher).

The LNL-1324E module allows doors or auxiliary I/O to be conveniently wired to an OnGuard system using structured cabling and Ethernet, rather than via dedicated RS-485 wiring. When combined with a compatible LenelS2 Intelligent System Controller, this allows either a 100% Ethernet solution or a hybrid system to be deployed, depending on the security and IT infrastructure considerations of the installation. The LNL-1324E module provides the same local I/O linking and fallback options as traditional serial-connected modules, but with the convenience and flexibility of network connection.

The LNL-1324E module can be configured in one of two operating modes. When in the network-connected dual door controller mode, the LNL-1324E module allows each door to have the following configuration: one or two OSDP readers to be connected, dedicated door contact and exit request inputs monitoring the door, and a door lock output relay controlling the door; additionally there are one auxiliary input and one auxiliary relay output are also available. And, when in the network-connected I/O module mode, the LNL-1324E module allows up to six inputs and four relay outputs to be configured using the OnGuard access control system.

### Features & Functionality

- Supports 10/100 Ethernet communications to LenelS2 M-Series or X-Series Intelligent System Controllers
- Advanced Encryption Standard 256-bit encryption supported
- Mounts into a standard ANSI/NEMA triple gang switch box for a compact footprint
- Firmware stored in flash memory; background download of firmware updates supported
- Custom or standard end-of-line resistors supported

#### Features when in network-connected dual door controller mode:

- OSDP reader port supports four OSDP reader addresses
- Paired or single reader support per door
- Supports OSDP, including biometric template transfer and Secure Channel encryption
- Two outputs; one dedicated for a strike and one general purpose (Form C, 2A @ 30Vdc) per door
- Two fixed inputs for door contact and request to exit (REX) per door
- Two programmable auxiliary inputs, one for each door

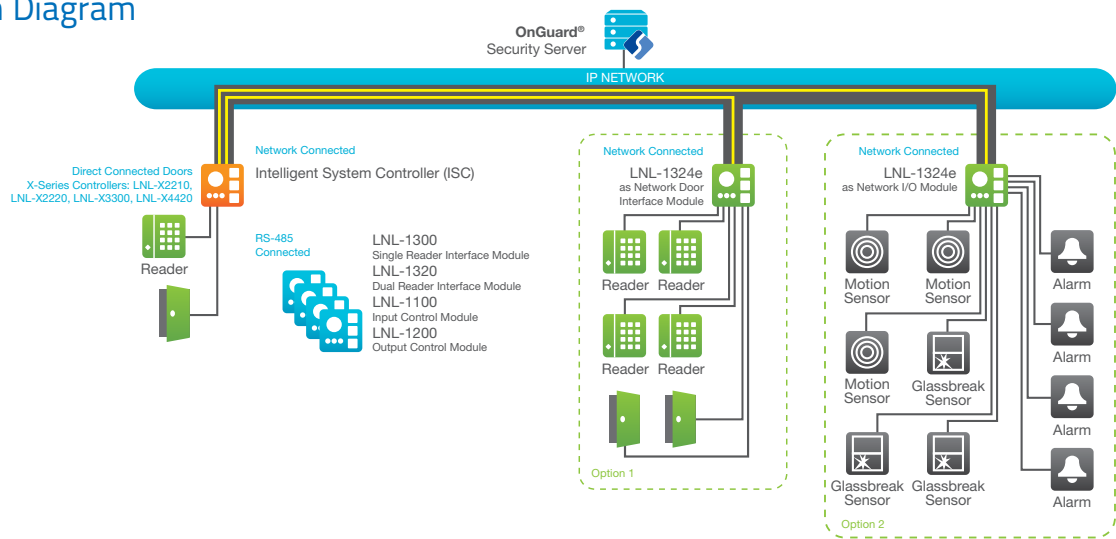
#### Features when in network-connected I/O module mode:

- Four general-purpose auxiliary relay outputs (Form C, 2A @ 30Vdc)
- Six programmable auxiliary inputs (supervised or unsupervised)

#### Extended Functionality:

- Connect supported FIPS-201 readers for embedded authentication (when used with LNL-M4420 or LNL-X4420 and appropriate OnGuard software, licenses and third-party hardware)

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                                                                         | PoE (12.95 W), compliant to IEEE 802.3af or PoE+ (25 W), compliant to IEEE 802.3at or 12 Vdc ±10%, 1.7 A maximum                                   |
| Power Output                                                                          | PoE: VO (TB4-1) and RVO (TB7-4), combined: 12 Vdc @ 0.66 A<br>PoE+ or external 12 Vdc: VO (TB4-1) 12 Vdc @ 1 A max, RVO (TB7-4) 12 Vdc @ 0.5 A max |
| Communication                                                                         | Ethernet: 10-BaseT/100Base-TX                                                                                                                      |
| Inputs                                                                                | Six unsupervised / supervised, standard EOL: 1k/1k ohm, 1%, 1/4 watt                                                                               |
| Outputs                                                                               | Four relays: Form-C contacts: 2 A @ 30 Vdc resistive                                                                                               |

|                  |                                                 |
|------------------|-------------------------------------------------|
| Reader Interface |                                                 |
| Power            | 12 Vdc @ 0.5 A max (RVO, TR7-4)                 |
| Communications   | 2-Wire RS-485, OSDP™ protocol, four device max. |

|                                                                                                                        |                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Cable Requirements                                                                                                     |                                                                                                                         |
| External Input Power                                                                                                   | 1 twisted pair, 18 AWG (if required)                                                                                    |
| Communications                                                                                                         | Ethernet, CAT-5, minimum                                                                                                |
| Alarm Input                                                                                                            | 1 twisted pair per input, 30 ohms maximum, typically 22 AWG @ 1000 ft. (304.8m)                                         |
| Relay Outputs                                                                                                          | As required for the load                                                                                                |
| Reader Data and Power*                                                                                                 | RS-485/power: 2 twisted pair with shield, 24 AWG, 120 ohm impedance and Power* 4000 ft. (1220m) maximum                 |
|                                                                                                                        | Or<br>RS-485: 1 twisted pair with shield, 24 AWG, 120 ohm impedance, 4000 ft. (1220m) maximum and Power: 1 pair 18 AWG* |
| *Type of cable(s) and gauge determined by length and voltage/current requirements. Local power source may be required. |                                                                                                                         |

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Mechanical             |                                                               |
| Dimensions (W x L x H) | 5.5 x 2.75 x 0.96 in. (140 x 70 x 24 mm) without bracket      |
|                        | 5.5 x 3.63 x 1.33 in. (140 x 92 x 34mm) with bracket          |
| Weight                 | 4.0 oz. (112g) without bracket<br>5.0 oz. (142g) with bracket |
| Environmental          |                                                               |
| Temperature            | -55 to 85°C, storage<br>0 to 70°C, operating                  |
| Humidity               | 5 to 95% RHNC                                                 |
| Heat Output (BTUs)     | at 12 VDC, 8.2 BTU/hr                                         |
| Approvals              | FCC Part 15, CE, RoHS, UL 294, UL 2610                        |

Parts and Spare Parts

| Part No.             | Description                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LNL-1324E            | IP Door Interface, OSDP readers only. Two door support, max four OSDP readers. Power options: PoE, PoE+ or 12 VDC. One aux input and one aux output per door. |
| LNL-1300-TAMPER      | Tamper cable for LNL-2210, LNL-X2210, LNL-1300, LNL-1330-S3, LNL-1300E, LNL-1324E                                                                             |
| M-Series Controllers | LNL-M2210, LNL-M2220, LNL-M3300, LNL-M4420                                                                                                                    |



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Specifications subject to change without notice.

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