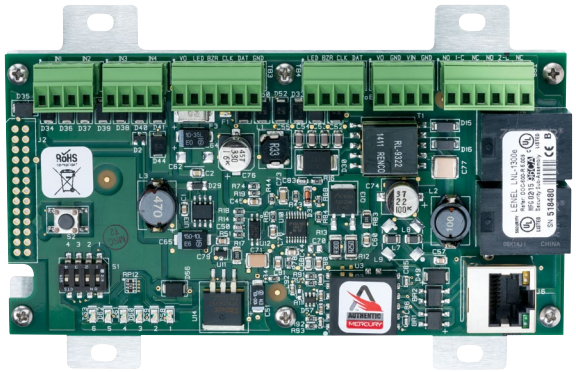
LNL-1300e

Flexible Network-Connected Door I/O Module



Overview

The LNL-1300e by Lenel is a flexible network-wired hardware module that interfaces either a single door (with 1 or 2 readers) or a set of I/O points to OnGuard® systems version 7.1 or higher.

The LNL-1300e 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 Lenel 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-1300e 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-1300e module can be configured in one of two operating modes. When in the network-connected single door controller mode, the LNL-1300e module allows one or two readers to be connected, controlling a single door. Two auxiliary inputs and one auxiliary relay output are also available, in addition to dedicated exit request and door contact inputs and a door lock output relay. And, when in the network-connected I/O module mode, the LNL-1300e module allows up to four auxiliary inputs and two auxiliary relay outputs to be configured using Lenel's OnGuard system.

Features & Functionality

- Supports 10/100 Ethernet communications to Lenel Intelligent System Controllers
- Advanced Encryption Standard (AES) 128-bit or 256-bit encryption supported, depending on ISC and OnGuard version
- 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 single door controller mode:

- Two reader ports: magnetic stripe, Wiegand, Supervised and Unsupervised F2F, or OSDP™ (Port 1 only)
- Paired or single reader support
- Reader Port 1 supports Open Supervised Device Protocol (OSDP), including biometric template transfer and Secure Channel encryption
- Two outputs; one dedicated for a strike and one general purpose (Form C, 5A @ 28Vdc)
- Two fixed inputs for door contact and request to exit (REX)
- Two programmable auxiliary inputs

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

- Two general-purpose auxiliary relay outputs (Form C, 5A @ 28Vdc)
- Four programmable auxiliary inputs

Extended Functionality:

- Connect supported FIPS-201 readers for embedded authentication (when used with LNL-4420 and appropriate OnGuard software, licenses and third-party hardware)

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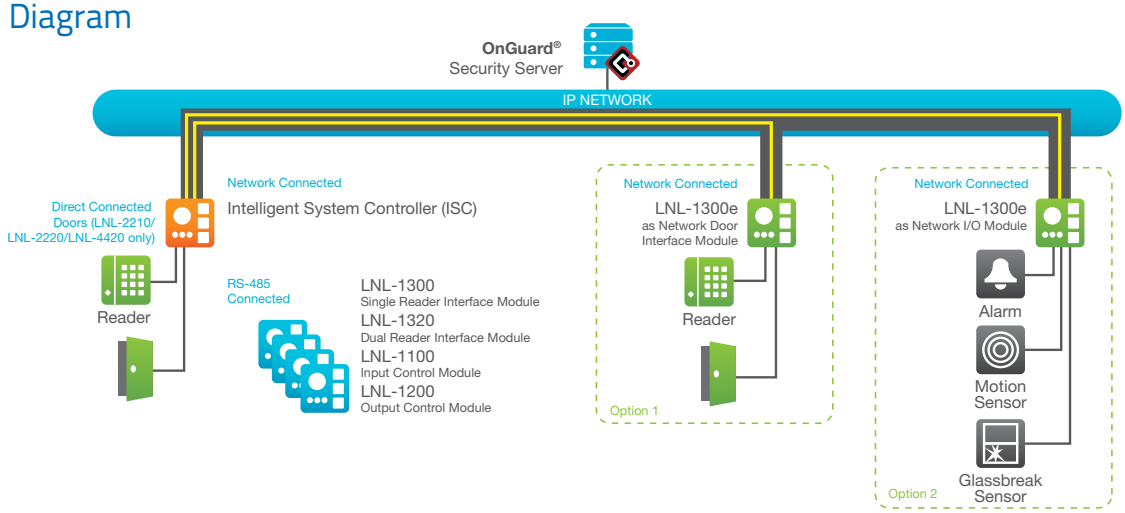
System Diagram



Specifications

Power input	PoE Class 3 power input 12.95W (44.16 BTU/hour), compliant to IEEE 802.3af, or 12Vdc ± 10% 900 mA (36.83 BTU/hour) maximum power supply Note: for UL installations, POE powered devices shall not be used. Power for these devices must be provided by a UL 294 listed power limited source (12Vdc)
Power Output	Reader port 1:12Vdc @ 150 mA, 6.14 BTU/hour Reader port 2: use AUX power port AUX power port: used to power reader 2 and/or strike, not to exceed 650 mA26.62 BTU/hour Thermally protected
Network Port	10BaseT/100BaseTX Ethernet, IPv4 addressing, NIST Validated 128 bit AES Encryption
Inputs	Four general purpose, programmable circuit type. In Door Controller mode, two general purpose plus dedicated REX and Door contact inputs
Outputs	Two relays - Form-C, 5 Amp, 28 Vdc. In Door Controller mode, one general purpose plus dedicated strike relay output
Reader Ports	Ports 1 and 2: Wiegand Data1/Data0, Magnetic Clock/Data, Unsupervised F2F , Supervised F2F Port 1 only: OSDP™ (Open Supervised Device Protocol); OSDP Secure Channel, Transparent Mode and biometric templates supported, Bioscrypt RS-485, FIPS-201 Embedded Authentication (requires LNL-4420 and appropriate licenses and software)
LED	11 status LED's. TTL, two wire or one wire bi-color support
Buzzer	Can be controlled by LNL-1300e when one-wire LED mode is selected
Dimensions	5.5"W x 2.75"L x .96"H (140mm x 70mm x 24mm) without bracket 5.5"W x 3.63"L x 1.33"H (140mm x 92mm x 34mm) with bracket
Temperature	Operating: 32°F to 158°F (0°C to 70°C), For UL installations: -10°C to +49°C (14°F to 120°F) Storage: -67°F to 185°F (-55°C to 85°C)
Humidity	10 to 95% relative humidity, non-condensing (RHNC), For UL installations: 85 ± 5% at 30 ± 2°C (86°F)
Approvals	FCC Part 15, Class A, CE Mark, RoHS, WEEE, UL 294, UL294B, CSA-C22.2 No. 205, UL1076, ULC/ORD-C1076

Note: For UL, the Power Sourcing Equipment (PSE) such as a PoE enabled network switch and/or PoE power injectors must be UL Listed under UL294.

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