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)
LNL-1300e

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.

Specifications subject to change without notice.

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