



## Product data sheet

# LNL-4420

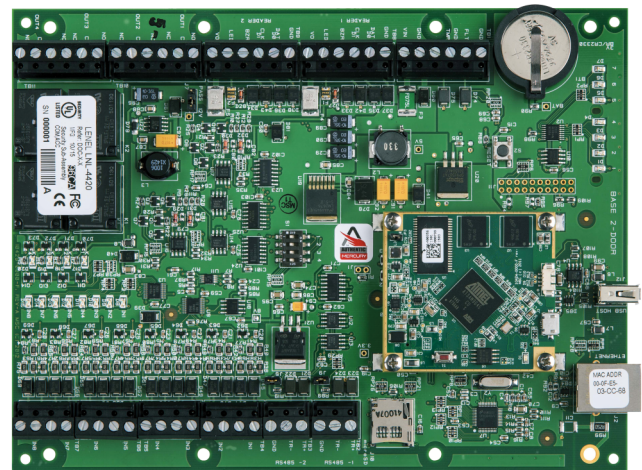
## Intelligent Dual Reader Controller

### Overview

The LNL-4420 Intelligent Dual Reader Controller (IDRC) by Lenel provides a single board solution for interfacing one or two doors to an OnGuard® system. In addition, other I/O and reader interface modules can be added on the LNL-4420's downstream port to expand its capabilities. The LNL-4420 revolutionizes access control system architecture by allowing Ethernet connection directly from an entry location to the OnGuard server, while still providing the security, functionality, and modularity of Lenel's proven hardware platform. The LNL-4420 is scalable for any access control application, from the most basic to the most sophisticated. In the event of communication loss, the LNL-4420 allows nearly all local functionality to continue unimpaired until the server connection is restored.

Utilizing its native Ethernet communications, and a 32-bit processor, and a multiple application operating system, the LNL-4420 can communicate upstream to the host computer through its Ethernet port. The LNL-4420 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, LNL-1320, LNL-500B, LNL-500W, Schlage PIM-400 wireless interface, or Assa Abloy Aperio® wireless modules.

Two on-board reader ports support Data1/Data0, Clock/Data, Bioscrypt RS-485 readers and the bidirectional RS-485 Open Supervised Device Protocol (OSDP) communications, including the latest OSDP profile for Secure Channel communications to the a reader. Each LNL-4420 supports up to eight different card formats. The LNL-4420 includes eight inputs that support normally open, normally closed, supervised, and unsupervised circuits, four of these inputs are designated for door interface support (door contact and request-to-exit inputs), and four general purpose inputs. In addition, four Form-C output relays support fail-safe or fail-secure operation.



### Details

- Controller Functionality
- On-board Ethernet 10/100Base-T port. DHCP and fixed IP addressing supported.
- DNS device naming through DHCP extended commands
- 16 MB of available on-board, non-volatile flash memory
- Battery-backed, non-volatile storage of 50,000 events
- Firmware stored in flash memory, background download of firmware updates supported
- Supports up to 16 different formats (8 card formats and 8 asset formats)
- Biometric template storage support for Schlage Recognition Systems® and Legacy Bioscrypt® templates
- Enhanced anti-passback capabilities
- 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
- Individual extended held open and strike times (ADA required)
- Up to 9-digit user PIN codes
- 21 status LEDs
- Dedicated input for cabinet tamper and power failure status
- 12 or 24 VDC input power
- Advanced Encryption Standard (AES) 128-bit algorithm for communications
- Reader Interface Functionality
- Supports Data1/Data0, Clock/Data and Lenel OSDP-compatible RS-485 readers and keypads, including OSDP Secure Channel (SC)

# LNL-4420

## Intelligent Dual Reader Controller

### Technical specifications

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#### System

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Controller type	Main Controller
Software compatibility	OnGuard
Max. no. of access levels	32000
Max. no. of timezones	255
Max. no. of card formats	16
Max. no. of PIN code digits	9
Max. no. of holidays	255
Elevator control	Yes
Elevator control max no. of floors	128
Max. no. of memory	16 MB
PCB only	Yes

#### Users/cards

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Max no. of cardholders	500000
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#### Interfaces

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Reader interface	Clock-data, OSDP, Wiegand
Host connection	IP, RS485

#### Communication

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Bus interface	RS485
IP addressing	DHCP, Fixed IP
IP port speed	10 Mbit, 100 Mbit

#### Electrical

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Operating voltage	12 or 24 VDC $\pm$ 10%. 500 mA maximum (reader current not included)
Current consumption	150 mA

#### Physical

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Physical dimensions	203 x 152 x 20 mm
Net weight	300 g
Shipping weight	320 g

#### Environmental

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Operating temperature	0 to +70°C
Storage temperature	-55 to +85°C
Relative humidity	0 to 95% noncondensing
Environment	Indoor

#### Standards & regulation

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Compliance	CE, FCC, RoHS, UL 294
Certification	CE, UL

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