

LNL-X4420

Advanced Dual Reader Controller

Overview

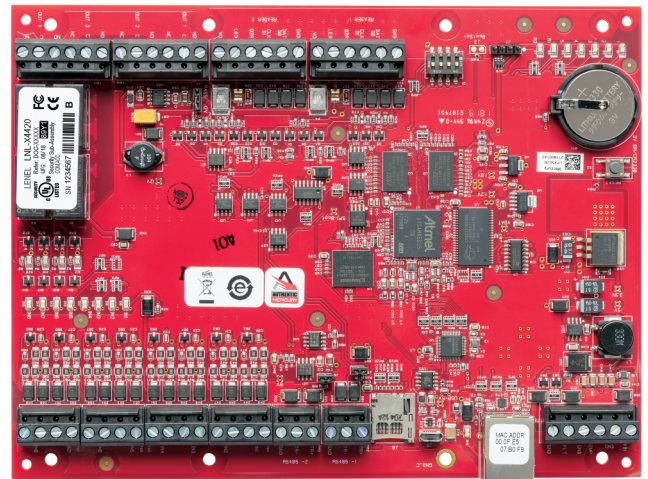
The LNL-X4420 is an Advanced Dual Reader Controller that provides a single-board solution for interfacing up to 64 doors, plus auxiliary inputs and outputs, to an OnGuard® system.

The LNL-X4420 controller enables Ethernet connection directly from an entry location to the OnGuard server. In addition, other I/O and reader interface modules can be added on the controller's two downstream ports, further expanding its capabilities. In the event of communication loss, the LNL-X4420 controller can maintain most of its local functionality until the server connection is restored.

The LNL-X4420 controller can act as an interface to building automation systems via the ASHRAE BACnet™ protocol. Through the OnGuard software, up to 63 total BACnet points can be defined. These can be a mix of physical inputs connected to the board and virtual outputs. Virtual outputs can be set and read from a connected BACnet client, allowing two-way state exchange with a variety of building control systems. This information can be used by both OnGuard and the external system for status reporting, and as inputs to control logic.

Utilizing its 32-bit processor and a multiple-application operating system, the LNL-X4420 controller communicates upstream to the host computer through its Ethernet port. The LNL-X4420 controller can store more than 1,000,000 cardholders in non-volatile flash memory (depending on configuration), and supports selective download for larger cardholder databases. The two downstream RS-485 two-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, Schlage® PIM-400 wireless interface (OnGuard 7.5 and higher), Assa Abloy Aperio® wireless devices or SimonsVoss SmartIntego® wireless devices.

Each LNL-X4420 controller supports up to 16 different card formats. The LNL-X4420 controller also includes eight inputs — four designated for door interface support and four for general-purpose inputs.



Details

- Support for DHCP and fixed IP addressing
- DNS device naming through DHCP extended commands
- 96 MB of available on-board, non-volatile flash memory for badge data, plus dedicated storage for future apps and extensions
- Battery-backed, non-volatile storage of 50,000 events
- Configurable option for Data at Rest encryption
- Firmware stored in flash memory
- Optional secondary Ethernet connection via USB adapter
- Biometric template storage ANSI/INCITS 378 templates
- Up to 32,000 access level permissions total (255 per badge)
- Elevator control support for up to 128 floors
- A dedicated input for cabinet tamper and power failure status
- Advanced Encryption Standard (AES) 256-bit algorithm for communications to downstream Lenel Series 3 reader and I/O interfaces; AES 128 bit encryption to Lenel Series 2 reader and I/O modules
- AES128 or TLS 1.2 (with AES256) communication to OnGuard
- RNDIS enables USB connection to display controller web configuration pages
- Support for Data1/Data0, Clock/Data, Unsupervised F2F and OSDP™-compatible RS-485 readers and keypads, including OSDP Secure Channel (SC) encrypted communications

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Technical specifications

System

Controller type	Main Controller
Software compatibility	OnGuard
Controller accessory	LNL-200XA, LNL-400XA, LNL-600XA
Max. no. of access levels	32000
Max. no. of card formats	16
Max. no. of PIN code digits	9
Elevator control	Yes
Elevator control max no. of floors	128
Max. no. of memory	128 MB
PCB only	Yes

Users/cards

Max no. of cardholders	500000
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Interfaces

Host connection	IP
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Communication

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

Electrical

Operating voltage	12 or 24 VDC
Current consumption	550 mA

Physical

Physical dimensions	203 x 152 x 25
Net weight	302

Environmental

Operating temperature	0 to +70°C
Storage temperature	-55 to +85°C
Relative humidity	5% to 95% non-condensing
Environment	Indoor

Standards & regulation

Compliance	CE, FCC, RoHS, UL 1076, UL 294
Certification	CE, UL

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Last updated on 27 August 2020 - 11:27

