Alarm Lock Trilogy Networx:

Advanced wireless networking locks

networx

wireless access control solutions... about ½ the cost, on any door

EASY INSTALL
Replaces any door lock, on any door type, neatly, quickly

MORE AFFORDABLE
Lowest labor & equipment costs without sacrificing top electronic access features

EASY NETWORK
No wires to run to doors. Uses customers' existing network or Ethernet & multi-lock gateways & optional repeaters

CENTRALLY MANAGED
Auto-Schedule program updates, queries, or free access by time, by door & more

USERS
Supports thousands of PIN, ID or iLock App users. Easily added/removed local or remotely

GLOBAL LOCKDOWN
or unlock in seconds from the server or any lock

Create a Wireless Access System simply, with Trilogy Networx™ Locks via 802.11 or ethernet network
DL6100 & prox/PIN version PDL6100

Trilogy Networx Locks eliminate door-to-door programming and audit trail retrieval by communicating wirelessly via Ethernet or 802.11B/G, while providing all original Trilogy standalone lock's functionality. They provide a quick, easy, economical access system with advanced features & functions, like automatic schedules, event logs and support for 2000 doors and 5000 existing Prox. ID Cards/Badges, but with no wires to run, and no access panels or power supplies to buy or install. At its simplest it's one Grade 1 durable wireless lock per door, installed in about an hour, all communicating to a single Gateway (each gateway controls up to 63 locks), networked to any non-dedicated Windows-based PC. In addition to Wireless Trilogy Networx' unsurpassed battery-life, exceeding 5 years, they feature new network-wide capabilities, executed from any lock or the network's PC, including emergency priority global lockdown deployed in seconds, and you can activate (non-priority) system-wide free-passage or locking modes from the PC. For existing Trilogy installations, original standalone and new Trilogy Networx locks can seamlessly share one common database hosted on free Alarm Lock DL-WINDOWS software.

- **Trilogy Networx Locks communicate wirelessly via Ethernet, Bluetooth LE or 802.11B/G** for a comprehensive wireless networked door access control system, eliminating door-to-door programming and audit trail retrieval and providing all standalone Trilogy lock functionality plus new network-wide and emergency lockdown features

- **Unsurpassed 5-year+ battery life, typical**, (Automatic battery status reports at the PC; visual and audible low-battery status indicators at lock(s).

- **Trilogy Networx and gateway modules have an integral transceiver for highly-efficient 900MHz bidirectional communications**, for longer range and less interference than with more common 2.4GHz spread spectrum devices. Alarm Lock devices require NO wiring; NO splitters or repeaters; NO hardwiring to the host/server; NO extra power supplies; and NO access controller/panels.

- **In 10 seconds, activate emergency global lockdown from the Networx PC, any Networx lock or Keyfob RR-4BUTTON.** (This priority emergency command is lightning-fast system-wide and supercedes all scheduled programs or updates, etc. However, if desired, locks may be selectively programmed to be excluded from emergency global lockdown function, i.e., they will ignore the command.)

- **System-wide free-passage enable or disable**, can likewise be activated from the Networx PC

- **Locks support up to 5000 users with 3-6 digit numeric PIN codes and PDL-Series also support prox ID card users** (virtually all HID™ format proximity technology ID cards, fobs, credentials.)

- **On demand, in seconds, wirelessly change users, schedules, lock features or retrieve audit trails of up to 40,000 events/lock from any networked PC.** (Note: Transaction processing time is dependent upon system capacity, the more locks/gateways and the more data to be up/downloaded, the longer the time.)

- **Unattended programming updates or event log retrievals can be scheduled** to run automatically, saving manpower and productive time.

- **Seamless upgrade path for original Trilogy users:** Intermix with existing Trilogy standalone lock installations and share one database and familiar Trilogy lock and software functions: Trilogy Wireless Networx Locks seamlessly integrate in an existing Alarm Lock Trilogy standalone door access system and share the same single DL-WINDOWS database (requires v4.1.x or higher). Existing Trilogy users can easily add one wireless Networx Lock, or as many as two thousand, to an existing system seamlessly with no downtime.

- **Secure 128bit AES PC encryption and proprietary RF-link lock communication encryption** protects the system from interference or tampering (WEP or WPA compatible with wireless modem).

- **Remote System Management:** VPN-connection /remote capability for accessing the Networx System and controlling up to all 2000 locks, with all the security and peace-of-mind of your IT network. (No special modems required.)

- Wireless locks are fully keypad programmable and can be up and functioning even before their wireless network is configured, so IT departments don't have to coordinate with physical security departments or locksmiths

- Free Alarm Lock DL-WINDOWS software doesn't require a dedicated computer or a special computer network or costly server software licenses, it simply runs as a secure Microsoft Windows-based application, on any computer system (as basic as a desktop or laptop PC), a wired or wireless router, and a gateway module or on an internal LAN with static IP add

- Minimizing hardware & installation costs, a single gateway module can interface between the PC network and up to 63 Networx locks , with a range of up to 900' clear field range or up to 200' depending on building construction. At its maximum, a Trilogy Networx system can comprise up to 32 gateways for the networking of up to 2000 locks or access controlled doors. New Gen 2 Gateways & Expanders for easiest networking

- **Optional Enterprise Software Integration with Continental, Lenel & Software House**

Advanced wireless networking locks

- Wall- or ceiling-mountable, compact gateway modules are available in wireless/hardwired and wired-only versions (with Power Over Ethernet (POE) option). The hybrid model connects using either 802.11, Ethernet cable or 100Base-TX (using RJ45 Jack); the wired versions use an RJ-45 Ethernet cable. Networx communications support both wired Ethernet 10BaseT and wireless 802.11.
- For the fastest most reliable networked system, in discovery setup mode, the system will locate and DL-WINDOWS will display each lock's signal strength at each installed gateway, so you can select it and optimize reliable communications and eliminate guesswork.
- Lock programming, user- and usage-data are stored locally at the battery-powered lock for uninterrupted door access usage in a power outage or server offline situation.

Enterprise Networks, Real-Time Performance

- Networx locks can be used as wireless, single-door controllers in real time too
- Use with Contintental Access® CA3000 , CA4K®, or Lenel OnGuard® Integrated Access Control & Video Security and Software House Connected Partner® Program Platforms ‡‡

Trilogy Networx Lock Specifications:

- Weatherproof locks for indoor/outdoor use with wide operating temperature range (-31 to 151° degrees F).
- Cylindrical models boast industrial strength BHMA Grade 1 durability and all models feature vandal-resistant all-metal keypad for PIN codes.
- PDL versions, HID Prox. Reader.
- ADA-compliant leversets.
- Easy-to-install modified ANSI A115 Series door prep; easily and neatly retrofit standard cylindrical knobsets and mechanical standalone locks, in under an hour. Non-handed
- 3 hour UL fire-rated deadlatch.
- Supports 1-5/8 to 1-7/8" door thickness; 2-3/4" backset (2-3/8" available.)
- Manual key override standard; most IC cores alss supported on interchangeable core models.
- Wide choice of 3 Architectural finishes (US3 polished brass, 26D satin chrome,10B duronodic) and IC core preps (6-7pin).

Ordering Information:

PDL6100 Cylindrical Trilogy Networx™ PIN/Prox. Wireless Access Control Lock with built in HID proximity ID card reader, full-metal digital keypad, integral bi-directional radio, 4-C cell battery-

operated (batts. supplied), serial number ID card, standard format SCI keyway for manual key override, 4-7/8" ASA Strike (incldd).

DL6100 Cylindrical Trilogy® Networx PIN-Code Wireless Access Control Lock, as above, with full-metal digital keypad only.

PDL6500 Mortise version Networx PIN/Prox. lock, similar to 6100 Series above.

DL6500 Mortise version Networx PIN-code only lock, similar to 6100 Series above.

DL-WINDOWS Free Alarm Lock Trilogy Microsoft Windows-based software application, v4.0.1 or higher, supports Trilogy Networx and Trilogy standalone locks, with single database. No-charge, downloadable online at www.alarmlock.com

Network Interface

INTERFACE: Ethernet 10Base-T or 100Base-TX (using RJ45 Jack)

PROTOCOLS: TCP/IP, UDP/IP, DHCP 802.11 Wireless Specifications

WIRELESS STANDARDS: IEEE 802.11b; 802.11g

FREQUENCY RANGE: 2.412 - 2.484 GHz

OUTPUT POWER: 14 dBm + 1.5 dBm/-1.0 dBm

MAXIMUM RECEIVE LEVEL: -10dBm (with PER < 8%)

DATA RATES WITH AUTOMATIC FALLBACK: 54Mbps - 1Mbps

RANGE: Up to 328 feet indoors

MODULATION TECHNIQUES: OFDM, DSSS, CCK, DQPSK, DBPSK, 64 QAM, 16 QAM

INTERFACE: Wireless 802.11b, 802.11g and 10/100 Ethernet

PROTOCOLS: TCP/IP, UDP/IP, DHCP

SECURITY

- IEEE 802.11 - PSK with AES Encryption 128-bit Encryption
- 128-bit AES Rijndael encryption

AL Radio Link

- 900 MHz GFSK, 50 channels, 10mW power output

VOLTAGE: 5 - 6 volts AC/DC

OPERATING TEMPERATURE: -20° to 60°C (-4° to 140°F)

STORAGE: -40° to 85°C (-40° to 185°F)

AVERAGE POWER CONSUMPTION:

- 1300 mW (WLAN mode; maximum data rate)
- 300 mW (WLAN mode; idle)
- 750 mW (Ethernet Mode)

PEAK SUPPLY CURRENT: 650 mA

INPUT VOLTAGE: 5 - 6 volts AC/DC

OPERATING TEMPERATURE: -31 to 151° degrees F

STORAGE TEMPERATURE: -40° to 85°C (-40° to 185°F)

‡‡ **Important: For enterprise integration** consult technical documentation to match proper AL hardware (Gateways, Expanders,etc.) with enterprise software Versions supported.

Up to 2000 locks and a PC communicate wirelessly through bidirectional Gateways – eliminating the need for door-to-door programming and audit trail retrieval. System Management with free DL-WINDOWS or Enterprise Solutions:

In seconds, global lockdown or unlock can be implemented from any Trilogy lock, even if the DL-WINDOWS computer is inaccessible or totally offline!

LENEL — CardAccess® 3000 — connected PARTNER PROGRAM SOFTWARE HOUSE — CA4K

AL-IME2 Gen. 2 Gateway

The Trilogy Networx AL Generation Gateway, interfaces Networx locks with a PC network via a hardwire Ethernet connection. It is very similar in function to the original hardwired Networx Gateway Modules, but is enhanced with additional extended potential range, supporting up to seven (7) Expanders (model AL-IME2-EXP Expanders). Each Expander can extend the AL-IME2 Gateway's coverage area by approximately 100 feet. Also both Gen. 2 Gateways and matching Expanders have a new modern styling, and three LED indicators, blending into any décor.

AL-IM2-80211 Gen. 2 802.11 Gateway

Similar to model above, but this 802.11 Gateway Module includes a bi-directional radio, and interfaces Networx locks with a PC network with hardwire Ethernet and wireless 802.11. It is very similar in function to the original 802.11 Networx Gateway Modules, but is enhanced with additional extended potential range, supporting up to seven (7) Expanders (model AL-IME2-EXP Expanders). Each Expander can extend the AL-IM2-80211 Gateway's coverage area by approximately 100 feet.

AL-IME2-POE Gen. 2 Gateway

The Trilogy Networx AL-IME2-POE (Power Over Ethernet) Hardwired Gateway interfaces Networx locks with a PC network with hardwire Power-Over-Ethernet. It is very similar in function to the original hardwired Networx Gateway Modules, but is enhanced with alternative power, and additional extended potential range, supporting up to seven (7) Expanders (model AL-IME2-EXP Expanders).

AL-IME2-EXP Expander

Trilogy® Networx™ Expander extends the coverage area of a Gen 2 Series Gateways to Trilogy Networx Locks within a PC network, allowing greater distances for the placement of up to a maximum rated capacity of 63 Networx locks per Version 2 Gateway.

AL-IME2-PIE Plug-in Expander

The Trilogy® Networx™ Plug-In Expander extends the coverage area of a Generation 2 Series AL-IME2 Gateway to Trilogy Networx Locks within a PC network, allowing greater 802.11 distances for the placement of up to a maximum rated capacity of 63 networx locks per Version 2 Gateway.

ORIGINAL GATEWAYS AVAILABLE ‡‡

AL-IM80211 Hardwire/Wireless Gateway, interfaces up to 63 Networx locks with PC network with hardwired Ethernet and wireless 802.11. AC Xformer supplied; ceiling/wall mount.

AL-IME Hardwire Gateway similar to above, but using hardwired connection to the network via RJ45 Ethernet cable.

AL-IME-USB Portable USB Gateway.

AL-IMEPOE Hardwire Gateway Interface Module + POE, as above, but using hardwired Ethernet and Power Over Ethernet (POE). Connects directly to a network via Ethernet cable.

‡‡ **Important: For enterprise integration** consult technical documentation to match proper AL hardware (Gateways, Expanders,etc.) with enterprise software Versions supported.

ALARM LOCK

Trilogy, Networx, ArchiTech & iLock and ** Continental CardAccess or CA4K™ CardAccess are trademarks of Alarm Lock, a division of Napco.
**Other marks remain the intellectual properties of their respective companies.