

BlueDiamond Multi-technology Readers



Overview

The BlueDiamond™ platform offers a complete, next-generation access control experience. With multi-technology readers, a feature-rich mobile app and the ability to support mobile and physical credentials, organizations can upgrade to the BlueDiamond experience at their own pace.

BlueDiamond multi-technology readers are among the most versatile access control readers on the market, work seamlessly with existing infrastructures and leverage open credentialing standards. The readers are non-proprietary, access control platform agnostic and support standard output protocols including Supervised F/2F (SF/2F), Wiegand, OSDP™ and OSDP V2. When utilizing LenelS2 OnGuard®, NetBox™, and Elements™ access control systems, users can conveniently manage mobile credentials through a single system.

Simultaneous support for a wide range of smart cards – including HID® iCLASS®, MIFARE® and DESFire® EV1, EV2 and EV3 – in addition to support for standard proximity cards means BlueDiamond multi-tech readers provide a seamless migration path from less secure card technologies to a more secure, open standard with DESFire EV1, EV2 and EV3 card technology and BlueDiamond mobile credentials.

The latest update to the BlueDiamond reader portfolio is the ability to support NFC Wallet-based credentials. With a cybersecurity mindset and privacy by design development strategy, LenelS2 is providing one of the most customer-centric NFC solutions on the market. Please reach out to your local Regional Sales Manager for more information on how to get started.

Features & Functionality

- Support for LenelS2 BlueDiamond Bluetooth and NFC credentials
- Multi-tech readers offer simultaneous support for:
 - **125kHz proximity cards**
 - HID Proximity
 - AWID® Proximity
 - CASI/GE Security ProxLite
 - **13.56MHz smart cards**
 - MIFARE DESFire EV1/EV2/EV3
 - Support for key diversification based on NXP standard
 - Support for NFC wallet-based credentials for Android and iOS
 - MIFARE Classic - ISO 14443, or secure sector data
 - Vicinity Card Serial Number - ISO 15693
 - HID iCLASS*
- DESFire Google Wallet NFC
- DESFire Apple Wallet NFC
- Wiegand, SF/2F or OSDP with or without secure channel encryption, auto-configuring with LenelS2™ access panels
- Firmware updates, custom key loading and configuration changes via OSDP file transfer when BlueDiamond multi-tech readers are paired with the OnGuard access control system version 7.5 or greater, Mercury xSeries Controllers and Mercury Series 3 i/o boards
- Slim profile
- Fingerprint-resistant black textured finish
- Optical tamper switch

BlueDiamond Multi-technology Readers

Specifications

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|--|---|---|---|
| Specifications |  |  |  |
| Mobile-enabled Readers | Multi-technology Mini-mullion Reader LNL-R11330-05TB | Multi-technology Standard-size Reader LNL-R11320-05TB | Multi-technology Standard-size Reader with PINpad LNL-R11325-05TB |
| Mechanical | | | |
| Dimensions | 3.8 x 2.1 x 0.8 in 96 x 52 x 21mm | 4.2 x 3.0 x 0.8 in 120 x 76 x 21mm | |
| Housing | Molded polycarbonate/ABS | | |
| Finish | Black, textured, fingerprint resistant | | |
| Mounting | Wall surface or standard US, UK, or EU switchbox | | |
| Environmental | | | |
| Operating Temperature | -31° - 149°F (-35° - 65°C) | | |
| Humidity | 0 - 100% RHNC | | |
| Ingress Protection Rating | IP65 | | |
| Electrical | | | |
| Voltage | 10Vdc to 16Vdc | | |
| Average Current draw at 12 VDC | 35mA | 35mA | 67mA |
| Peak Current draw at 12 VDC | 67mA | 73mA | 105mA |
| Data Voltage | Rest >4Vdc / Active <1Vdc | | |
| Reader Interface | Supervised F/2F**, OSDP, Weigand | | |
| Indication | 1 RGB LED | | 1 RGB LED + illuminated keypad |
| Sounder | Integral speaker | | |
| Read Range | Up to 4 in. (10cm) for RFID cards, up to 30 ft. (9m) for Bluetooth | | |
| Warranty | | | |
| Warranty | 5-year limited warranty | | |
| Certifications | | | |
| FCC Part 15 UL294 CE Marked RoHS WEEE IP65 | | | |

*Support for HID iCLASS Classic or Standard, not Elite Key, SE or SEOS.

**Support for Supervised F/2F protocol on a BlueDiamond reader is indicated by a label visible on the physical reader.

BlueDiamond Multi-technology Readers

Ordering Information

| Readers | |
|-------------------------|---|
| LNL-R11330-05TB | Multi-technology Mini-mullion Reader |
| LNL-R11320-05TB | Multi-technology Standard-size Reader |
| LNL-R11325-05TB | Multi-technology Standard-size Reader with PINpad |
| Pre-Encoded Credentials | |
| LNL-EV22KPP | DESFire EV3 ISO PVC 2K 13.56MHz |
| LNL-EV22KPPD | DESFire EV3 ISO PVC 2K 13.56MHz - pre-programmed with diversified key for BlueDiamond readers (requires reader firmware dev 42 or higher) |
| LNL-EV22KPPDFOB | DESFire EV3 Plastic Keyfob 2K 13.56MHz - pre-programmed with diversified key for BlueDiamond readers (requires reader firmware dev 42 or higher) |
| LNL-EV28KPPD | DESFire EV3 ISO Composite 8K 13.56MHz - pre-programmed with diversified key for BlueDiamond readers (requires reader firmware dev 42 or higher) 9476-3m |
| LNL-EV22KPPFOB | DESFire EV3 2K 13.56MHz Keyfob |
| LNL-EV22KPPMG | DESFire EV3 ISO PVC 2K 13.56MHz with Magnetic Stripe (no encoding on stripe) |
| LNL-EV28KPP | DESFire EV3 ISO Composite 8K 13.56MHz |
| LNL-EV28KPXPP | DESFire EV3 ISO Composite 8K with Proximity Chip |
| LNL-EV28KPPMG | DESFire EV3 ISO PVC 8K 13.56MHz with Magnetic Stripe (no encoding on stripe) |
| Non-Encoded Credentials | |
| LNL-EV22KNP | DESFire EV3 ISO PVC 2K 13.56MHz |
| LNL-EV22KNPFOB | DESFire EV3 2K 13.56MHz Keyfob |
| LNL-EV22KNPMG | DESFire EV3 ISO PVC 2K 13.56MHz with Magnetic Stripe (no encoding on stripe) |
| LNL-EV28KNP | DESFire EV3 ISO Composite 8K 13.56MHz |
| LNL-EV28KPXNP | DESFire EV3 ISO Composite 8K with Proximity Chip |
| LNL-EV28KNPMG | DESFire EV3 ISO PVC 8K 13.56MHz with Magnetic Stripe (no encoding on stripe) |
| Licenses | |
| BDM-NFCBUNDLE | One time setup fee that includes both Apple Wallet and Google Wallet-based NFC Credentials |
| BDM-ANDBUNDLE | One-time setup fee for NFC Wallet-based credentials (a la carte) for organizations with only Android devices |
| BDM-ANDUSER | Billed automatically for new 'adds to wallet' or activation of NFC credential – Android |
| BDR-ANDUSER | Billed automatically one year after 'add to wallet' if the credential is still active in the wallet – Android |
| BDM-IOSBUNDLE | One-time setup fee for NFC Wallet-based credentials – Apple |
| BDM-IOSUSER | Billed automatically for new 'adds to wallet' or activation of NFC credential – Apple |
| BDR-IOSUSER | Billed automatically one year after 'add to wallet' if the credential is still active in the wallet – Apple |
| BDM-OWNERACCT | Required to create a BlueDiamond owner account |
| BDM-CRD | Per mobile credential per user fee |
| BDM-RDR | Per reader fee for unlimited credentials. Applies to every reader used for use with mobile credentials only |
| BDM-MERL | BlueDiamond mobile license upgrade to convert any mobile-ready reader to a mobile-enabled reader |



[LenelS2.com](https://www.LenelS2.com)

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Specifications subject to change without notice.

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