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

			
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	IP67		
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 fo ruse with mobile credentials only
BDM-MERL	BlueDiamond mobile license upgrade to convert any mobile-ready reader to a mobile-enabled reader

One NFC user has two credentials (based on PACS).
One Phone credential and one Watch credential = One pass for one NFC user.

PLEASE NOTE:
If customer has already ordered the BDM-IOSBUNDLE, no purchase of BDM-ANDBUNDLE is required.
Purchase order indicates BDM-IOSBUNDLE or BDM-ANDBUNDLE, they get both.

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