

# eDynamo

## EMV/Secure Card Reader Authenticator

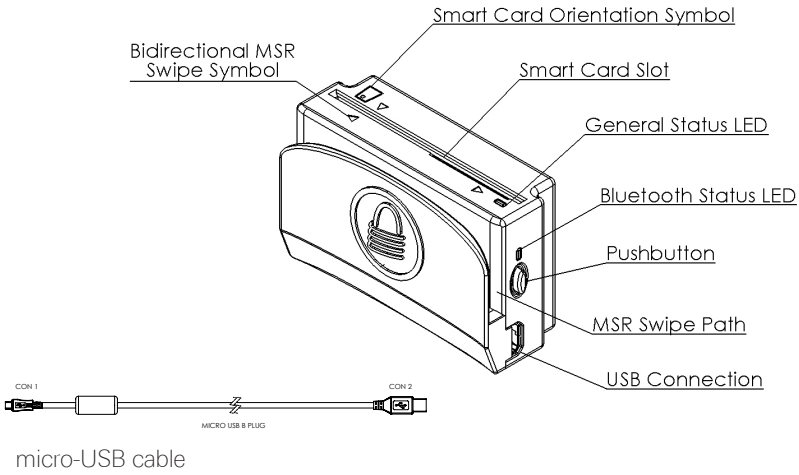
### Quick Installation Guide



#### Product Description

eDynamo gives users the flexibility needed to securely accept a variety of payment card technologies. Whether accepting a traditional magnetic stripe card or a contact EMV card, eDynamo gives merchants the ability to connect via USB or Bluetooth<sup>®</sup> Smart (BLE), delivering one reader for mobile or stationary needs. This design leads to saving the user money on a single, low-cost, yet highly secure device.

## Major Components



## Power and Charging



**Power:** Power via micro-USB (utilize its wired USB interface and power to operate while connected to a PC or tablet-based POS system where a USB Host and power are available) or via the rechargeable battery.



### Charging:

**Fully charge eDynamo before first use (for 3 hours or until the LED is solid green). Fully charge eDynamo within 5 months of shelf storage.**

Charging via industry standard USB cables. Requires USB port for charging before use. Subsequent charging requires just a couple of hours for a full charge. Allows over 1,000 card swipes between charges.

## Connection and Mounting



### CONNECTION

**Micro-USB B:** configured to appear as a vendor-defined HID device, no custom drivers necessary.



**Bluetooth Low Energy (BLE):** configured to appear as a GATT device. Supports personal area network using standard 2.4GHz frequency space

**Wireless Range:** Minimum 33 ft. (10 m) in line-of-sight conditions.

### MOUNTING

eDynamo offers versatile mounting options and can be mounted or hand held. It requires no wire management or hole drilling.

## Device modes

- **Airplane Mode:** ship mode, will not advertise/communicate over BLE.
- **Reset Mode:** to reset to Airplane Mode, hold the pushbutton for 5 to 10 seconds.
- **Discoverable Mode:** press the pushbutton briefly to get to this waiting/ready state. Device is not connected to USB but advertises over BLE.
- **Pairing Mode:** to pair the reader via Bluetooth, hold the pushbutton for two seconds, the LED will flash three times, release the pushbutton. The device will advertise over BLE and the Bluetooth Status LED will flash once every two seconds. Find and pair on the terminal.
- **Connected Mode:** connected to a USB host, or paired to BLE host, the device does not advertise and is not discoverable.
- **Tamper Mode:** self-test has failed or a tamper has been detected, the device must be returned to manufacturer for a factory reset.

## Optional Docking Station

With the optional docking station for surface-mounted applications, simply press eDynamo onto any smooth, clean surface. The micro-suction base offers the optimal level of stickiness so cardholders can swipe with confidence without requiring any mounting hardware or alterations to the mounting surface. In addition, the docking station includes recessed panels to apply your own branding. Connect the USB cable to eDynamo. Place eDynamo on the base. Then connect the top case over eDynamo connecting to the base.



Part Number: 21079809

## Tested Operating Systems



iOS 7.1  
and above



Android 4.4.2  
and above



USB: Win 7,  
Win 8.1, Win 10



BLE: Win 8.1,  
Win 10 w/  
Bluetooth 4.0

## Compliance

**FCC WARNING STATEMENT:** This equipment has been tested and was found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation.

**FCC COMPLIANCE STATEMENT:** This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CANADIAN DOC STATEMENT:** This digital apparatus does not exceed the Class B limits for radio noise from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

This Class B digital apparatus complies with Canadian ICES-003.

















Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**CE STANDARDS:** Testing for compliance with CE requirements was performed by an independent laboratory. The unit under test was found compliant with standards established for Class B devices.

**UL/CSA:** This product is recognized per Underwriter Laboratories and Canadian Underwriter Laboratories 1950.

**RoHS STATEMENT:** When ordered as RoHS compliant, this product meets the Electrical and Electronic Equipment (EEE) Reduction of Hazardous Substances (RoHS) European Directive 2002/95/EC. The marking is clearly recognizable, either as written words like "Pb-free", "lead-free", or as another clear symbol 

## LEDs

General Status LED		
Description	Image	Description
Off - black		If powered by the battery, the device is waiting for a swipe, or the battery is completely drained of power and needs to be recharged.
Steady on - green		If the device is powered by USB and configured to require authentication, the device is waiting for authentication. After authentication is established it will slowly blink green, or will turn steady red if authentication fails. If the device is powered by USB and not configured to require authentication, the device battery is fully charged and the device is ready to read a card.
Mostly Solid - green		If powered by USB, the device is waiting for a swipe and the battery is charging.
One second on - green		The device has successfully decoded a swiped or inserted card.
Slow blinking - green		If configured to require authentication, authentication has been established, device is ready to read a card.
Rapid flashing - green		If operating in BLE mode, reader has card data to send to the host, but the host has not yet established a connection. Flashing will stop when the host establishes a connection or after timeout waiting for connection (15-30 secs).
One second on - amber		If operating in BLE mode, reader has card data to send to the host, but sending has failed.
Steady On		The device is in tamper mode.
Steady on - red		If powered by USB and the device is configured to require authentication, authentication has failed. Make sure you are connecting to the correct host, and check the authentication configuration on the host.
Rapid flashing - red		When operating on battery power, a card has just been swiped but the battery must be recharged. If there is enough battery power to transmit card data, expect the LEDs to display standard card data statuses after one second. If followed by no other status, the battery is too low to send data.
One second on - red		Device has failed to decode data on a swiped card. Try the swipe again.
Bluetooth Status LED		
Off		If powered by the battery, the device is in Airplane Mode, Discoverable Mode, or Connected Mode, or has completed one minute of BLE advertising in Pairing Mode, or the battery is completely drained of power and needs to be recharged.
Three flashes - blue		The user has just pressed the pushbutton for 2 seconds and the device will transition to Pairing Mode when the button is released.
Short flashing - blue		The device is in Pairing Mode, is advertising and ready for a BLE host to initiate pairing.
Solid on - blue		The Bluetooth Status LED is lit when the pushbutton is pressed, to provide user feedback that the pushbutton is working correctly.
Solid on - blue		The device can optionally be configured to light the Bluetooth Status LED whenever a BLE connection is active.

## Technical Support

When calling the support team please have your reader charged and have the part number and serial number(s) available.



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