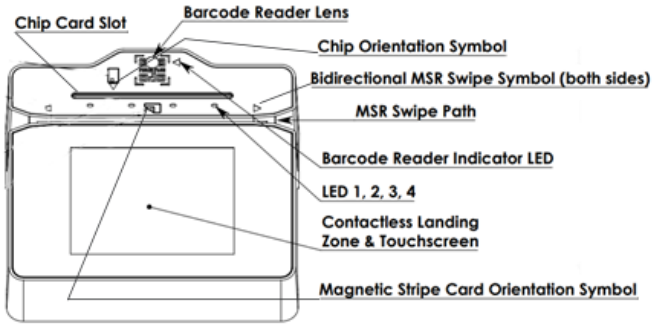
MAGTEK®
SECURITY FROM THE INSIDE

DynaFlex II PED Family
Secure Card Reader and PIN

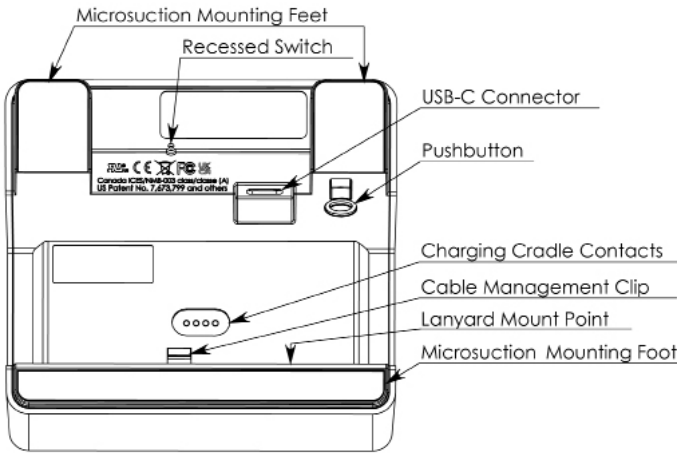
Quick Installation Guide
Setup and Installation

Overview
DynaFlex II PED products are ready to launch your payment environment to the next level. All DynaFlex II PED products offer a color, touchscreen display for manual entry, digital signature, and PIN for POS and banking, integrated secure card reader authenticator for magnetic stripe cards, EMV Contact Chip and EMV Contactless reader, and are NFC enabled for mobile wallets including Samsung Pay℠, Google Pay™, and Apple Pay®. DynaFlex II PED BCR additionally offers a barcode reader. BCR models additionally offer barcode reading for 1D/2D barcodes and QR codes.

Major Components



DynaFlex II PED Major Components
Top Face



DynaFlex II PED Major Components
Underside

Environmental Notice:

Storage tempertature	14° to 140°F (-10°C to 60°C)
Operating temperature	32°F to 113°F (0°C to 45°C)

Models

PN	Description	BCR	Style	Connection
21078309	DynaFlex II PED, PCI, Black	no	Counter	USB
21078311	DynaFlex II PED, PCI, Black	no	Counter	WLAN
21078321	DynaFlex II PED Kiosk, PCI, Black	no	Kiosk	USB
21078332	DynaFlex II PED BCR, PCI, Black	BCR	Counter	WLAN
21078333	DynaFlex II PED BCR, PCI, Black	BCR	Counter	USB
21078334	DynaFlex II PED Kiosk BCR, PCI, Black	BCR	Kiosk	USB

Mounting / Stability
DynaFlex II PED products are used in countertop (traditional brick and mortar), mounted (to a touchscreen, holster, or other solution), or handheld solutions (brought to the table, with wireless models only). Each device has three (3) non-slip grip feet for better stability for countertop solutions. Kiosk models have a flat mounting back.

How to Connect to USB Host
Devices connect to a host via the USB-C plug located on the bottom of the device. For best results, use the cable that is included with the device, it includes shielding at both ends of the cable to reduce emissions and interference. Compatible with USB Hosts: Windows 10, Android 4.4.2 and above.

How to Connect to Host via WLAN
Compatible with WLAN (802.11 wireless) Hosts: Windows 10, Android 4.4.2+, and iOS/iPadOS. WLAN is 100m in a typical environment. See Installation and operation manual for details: https://www.magtek.com/content/documentationfiles/d998200554.pdf

Commands
Devices are designed to connect to a host which sends commands and data back and forth. In any solution, DynaFlex II Products must be connected to a host with software installed that knows how to communicate with the device and is capable of processing transactions. Follow the installation and configuration instructions provided by the vendor of the host or the host software for use. For development of applications, see the SDKs and APIs on www.magtek.com under support.

Power
- To **power on** the device, connect it to a USB host. Upon connecting to a Windows 10 host, the display and LEDs turn on briefly, then turn off when Windows **suspends** the device's USB connection to conserve power. To turn the display and LEDs back on, connect to the device using software on the host (for example, by using the *Open Device* button in *1000007406 DynaFlex, DynaProx Test Utility,* available from MagTek), which signals Windows to **resume** the USB connection and provide full power to the device.
- To **power off** the device, disconnect it from the USB host.

Color Touchscreen
Color touchscreen is used to display a logo or custom messaging, offer manual entry of data, accept digital signature, or PIN ID and depicts on-screen instructions for insert, tap, or swipe operations. The screen is inset and measures 2.27in. (57.60mm) X 1.70 in. (43.20mm), 320x240 RGB.

Use and Compliance

Accepting Payments

How to Swipe Magnetic Stripe Cards

Locate the swipe path on the face of the device. Orient the card with the magnetic stripe facing away from the cardholder and the touchscreen or contactless landing zone, toward the LEDs and the chip card insertion slot. Swipe the card through the magnetic stripe reader in either direction.

How to Insert EMV Contact Chip Cards

Locate the insertion slot on the face of the device. Orient the chip card so the chip faces the cardholder, toward the touchscreen or contactless landing zone and the LEDs. Insert the chip card into the slot, then push gently on the card until it stops. There should not be any substantial resistance until the chip card is fully inserted. On prompt, remove card.

How to Tap Contactless Cards / Devices

The device lights the first LED green to indicate it is ready for a tap. Tap the card or electronic payment device on the contactless landing zone, indicated by the EMVCo Contactless Indicator on the device's face. The card or device's antenna* must be centered over the contactless landing zone. The 4 LEDs will light up green and the device may beep (some host software indicators are up to the implementer) and on the touchscreen it shows REMOVE CARD then THANK YOU. Remove the card or electronic payment device from the contactless landing zone.

*NOTE ON ELECTRONIC DEVICES: If the cardholder is using an electronic payment device, such as a smartphone, make sure the payment device has NFC turned ON and has a payment app configured to process transactions. Because each smartphone model may have its NFC antenna placed differently, the ideal tap position may vary by make and model. For example, Samsung users may need to center the phone on the contactless landing zone, while Apple users may need to tap the top of the phone on the contactless landing zone.

How to Read with Barcode Reader

Hold QRcode or barcode approximately 6 inches away from barcode reader.

How to Accept PIN

Enter PIN onto touchscreen.

How to Enter Manual Data

Use dry fingertips to tap on the digital keypad/PINpad (retail) PINpad (Banking ID verification). **CAUTION: DO NOT USE A STYLUS.** A stylus may scratch and damage the touchsreen.

DynaFlex II PED Manual Entry

Only use dry fingers.

LEDs

DynaFlex II PED Products have 4 LEDs that provide response to the user for Power, Connection, Device Status, and Card Status. The Installation and Operation Manual has a more complete list of light signals.

DynaFlex II PED Payment Acceptance Diagrams

DynaFlex II PED shown here

Swiping Magstripe Card

EMV Chip Card Insertion

NFC Contactless Device Tap

EMV Contactless Card Tap

DynaFlex II PED BCR model shown here

QR Code / barcode read

Compliance

FCC INFORMATION
This device complies with Part 15 of the FCC Rules. Operation 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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by MagTek could void the user's authority to operate this equipment.

CANADIAN DECLARATION OF CONFORMITY
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 Réglement 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 conformé à la norme NMB-003 du Canada.

INNOVATION, SCIENCE AND ECONOMIC DEVELOPEMENT CANADA (ISED)
This device complies with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) L'appareil ne doit pas produire de brouillage, et (2) L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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.

EU STATEMENT
Hereby, MagTek Inc. declares that the radio equipment types Wideband Transmission System (Wireless LAN and Bluetooth Low Energy), and Non-Specific Short Range Device (contactless) are in compliance with Directive 2014/53/EU. The full text of the EU declarations of conformity is available at the following internet addresses:
Security Policy https://www.magtek.com/content/documentationfiles/d998200520.pdf

UKCA STATEMENT
Hereby, MagTek Inc. declares that the radio equipment types Wideband Transmission System (Wireless LAN and Bluetooth Low Energy), and Non-Specific Short Range Device (contactless) are in compliance with Radio Equipment Regulations 2017 Directive S.I.2017:1206. The full text of the UKCA declarations of conformity is available at the following internet addresses
Security Policy https://www.magtek.com/content/documentationfiles/d998200520.pdf

AUSTRALIA / NEW ZEALAND STATEMENT
Testing for compliance with AS/NZS standards was performed by a registered and accredited laboratory. The unit under test was found compliant with standards established under AS/NZS CISPR 32 (2013), AS/NZS 4268 Table 1, Row 59 DTS 2400-2483MHz SRD (802.11), and AS/NZS 4268 (2017) Table 1, Row 43 13.553-13.567MHz (contactless reader).
UL/CSA
This product is recognized per UL 60950 1, 2nd Edition, 2011 12 19 (Information Technology Equipment - Safety - Part 1: General Requirements), CSA C22.2 No. 60950 1 07, 2nd Edition, 2011 12 (Information Technology Equipment - Safety - Part 1: General Requirements).

ROHS STATEMENT
When ordered as RoHS compliant, this product meets the Electrical and Electronic Equipment (EEE) Reduction of Hazardous Substances (RoHS) Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU. The marking is clearly recognizable, either as written words like "Pb-free," "lead-free," or as another clear symbol ( ).

PCI STATEMENT
PCI Security Standards Council, LLC ("PCI SSC") has approved this PTS POI device (PED class) to be compliant with the PCI PTS POI Security Requirements v6.x.

When granted, PCI SSC approval is provided by PCI SSC to ensure certain security and operational characteristics important to the achievement of PCI SSC's goals, but PCI SSC approval does not under any circumstances include any endorsement or warranty regarding the functionality, quality or performance of any particular product or service. PCI SSC does not warrant any products or services provided by third parties. PCI SSC approval does not under any circumstances include or imply any product warranties from PCI SSC, including, without limitation, any implied warranties of merchantability, fitness for purpose, or non-infringement, all of which are expressly disclaimed by PCI SSC. All rights and remedies regarding products and services which have received PCI SSC approval shall be provided by the party providing such products or services, and not by PCI SSC.