



User Manual

Linea TAB Mini



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Legal Notice

“Made for iPod” “Made for iPhone” and “Made for iPad” mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance.

Compatibility

Made for

iPad mini

iPad mini with Retina display

iPad Air

iPad, iPhone, iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.

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: Use shielded cables to connect this device to computers.

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Linea TAB Mini

Model	Description
<i>Linea TAB Mini MSR</i>	<i>Linea TAB Mini with 3-Track mag-stripe reader</i>
<i>Linea TAB Mini EMSR</i>	<i>Linea TAB Mini with Secure Encrypting MSR Module</i>
<i>Linea TAB Mini MSR 2D</i>	<i>Linea TAB Mini with 3-Track mag-stripe reader and 1D/2D barcode scanner</i>
<i>Linea TAB Mini EMSR 2D</i>	<i>Linea TAB Mini with with Secure Encrypting MSR Module and 2D barcode reader</i>
<i>Linea TAB Mini MSR 2D/BT</i>	<i>Linea TAB Mini with 3-Track mag-stripe reader, 1D/2D and Bluetooth®</i>
<i>Linea TAB Mini EMSR 2D/BT</i>	<i>Linea TAB Mini with Secure Encrypting MSR Module, 1D/2D and Bluetooth®</i>
<i>Linea TAB Mini MSR 2D/ BT/RFID</i>	<i>Linea TAB Mini with 3-Track mag-stripe reader, 1D/2D/Bluetooth® and RFID reader</i>
<i>Linea TAB Mini EMSR 2D/ BT/RFID</i>	<i>Linea TAB Mini with Secure Encrypting MSR Module, 1D/2D/Bluetooth® and RFID reader</i>

Table 1

Overview

Linea TAB Mini allows mobile workers to convert their iPad Mini handset into a powerful point-of-sale solution. The Linea TAB Mini includes optional 1D or 2D barcode scanner, 3-tracks magnetic stripe reader, RFID reader and a rechargeable battery extender in a very compact and durable protective case.

Features:

Battery: Rechargeable Li-ion Battery - 1100 mAh, charging via USB or DATECS Power Station.

Magnetic Card Reader – 3-Track Head:

Swipe Speed: Minimum of 1.97 in/sec

MTBF: 1 million swipes

Bidirectional reading capabilities

Barcode Scanner: Single / Multi-scan mode

2D – EM2049 Image sensor 752x480 CMOS

2D – MDI-3000 Image sensor 752x480, Scan rate: Up to 60fps

Indicators:

Visual: 2 LEDs for device and battery status

Audio: Electromagnetic Buzzer

I/O Connectors:

9-pin lightning connector

10-pin female Mini-B USB connector for charging and synchronization

Contactless indications:

Four LEDs

Technical Data




Power supply	<i>Internal voltage 3.3V & 5V</i>
Compatibility	<i>iPad Mini</i>
MCU	<i>32-bit ARM™ Cortex™ - M3 based Microcontroller</i>
Communication Interface	<i>USB Interface – between Linea TAB Mini and iPad Mini USB Synchronization between Apple iPad Mini ® & PC</i>
Power Consumption	<i>Deep sleep ~20uA</i>
Bluetooth	<i>Bluetooth 2.0 Class 2 distance - Up to 10m Serial port profile</i>
BAR code	<i>MDI - 3000 - High Speed 2D CMOS Imager EM2049 – High Performance 2D Imager scanner</i>
Supported Barcode Type	<i>UCC/EAN 128, EAN 13, EAN 8, UPC A, UPC E, UPC E1, Code 11, Code 39, Code 93, Code 128, GS1, Matrix 2 to 5, Code 11,2 of 5 industrial, 2 of 5 interleaved, Codebar, MSI/Plessey, UK/Plessey, IATA,ISBN, ISMN, ISSN, S-code, Telepen, RSS 14, RSS Limited, RSS- Expanded, PDF417, microPDF417, Data Matrix, QR code, Aztec code, Maxi code, Micro QR code</i>
Contactless	<i>MIFARE MINI MIFARE CLASSIC-1K, MIFARE CLASSIC-4K MIFARE ULTRALIGHT, ULTRALIGHT-C ISO 14443, ISO 15693 MIFARE PLUS 2K/4K DESFire card, FeLiCa</i>
MSR	<i>3-track bidirectional reading capabilities Type: ISO 7816-1/2/3 compatible & RAW mode</i>
Secure Encrypting MSR Module	<i>PCI PTS 3.x SRED compliant DUKPT and Fixed Key Management 3DES-112, AES-128, AES-256 encryption algorithms</i>
LEDs	<i>Green LED for battery Blue LED for device status Four LEDs for Contactless indication</i>
Buttons	<i>Scan and Status Buttons</i>
Audio	<i>Electromagnetic Buzzer</i>
Battery	<i>Rechargeable Li-ion Battery 3,7V 1100mAh, charging from USB port or DATECS Power station</i>
Weight, g	<i>140</i>
Dimensions, mm (L x W x H)	<i>103 x 88 x 23.5</i>
Environment	<i>- Operating temperature 0°C to +40°C - Operating humidity 35 to 85% RH - Storage temperature -5°C to +40°C - Storage humidity 10 to 90% RH</i>
Cables	<i>Standard USB A to mini B CABLE(0.9m) USB DOWNLOAD CABLE (option)</i>

** Specifications subject to change without notice.*

Table 2

Box Contents

Your Linea Tab Mini comes with the following items listed below:

Item	Part Number	Descriptions	Image
1	Linea TAB Mini	Linea TAB Mini / Scanner	
2	USB A to mini USB B	USB Sync cable	
3	Linea TAB Mini User Manual	User's manual	

**Bulk Shipments may ship without cables and manuals in each box.*

Table 3

Getting Started

The Linea TAB Mini allows you to scan barcode and capture Magnetic Strip information onto your iPad Mini. Before using your Linea TAB Mini the battery should be properly charged. The following Quick Start guide will help to get your Linea TAB Mini ready for use.

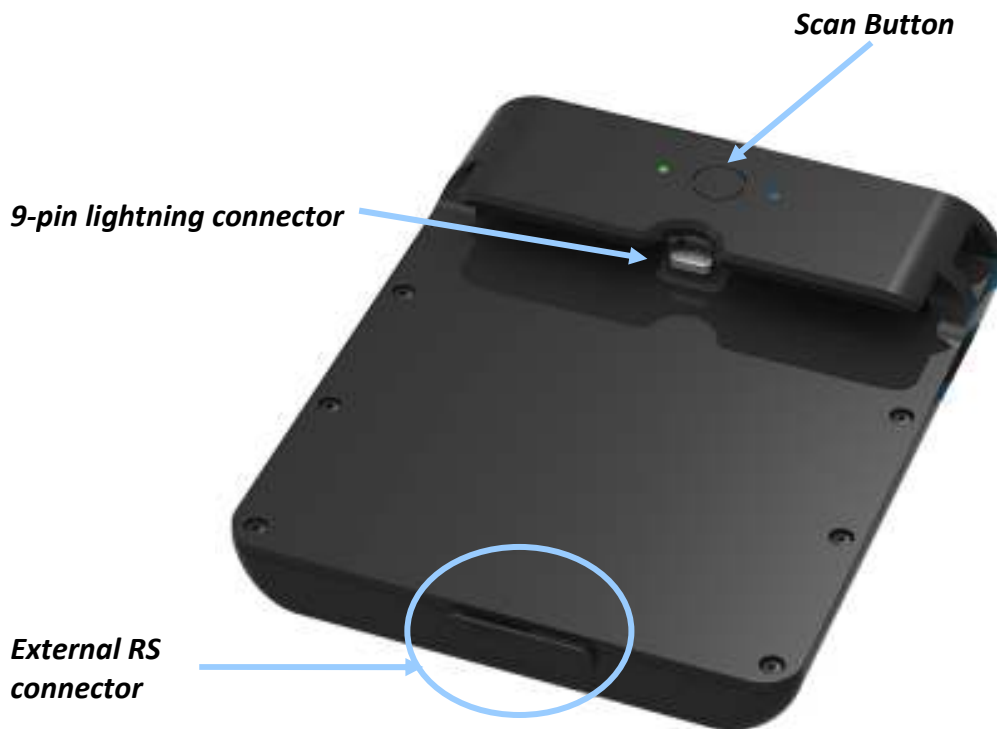
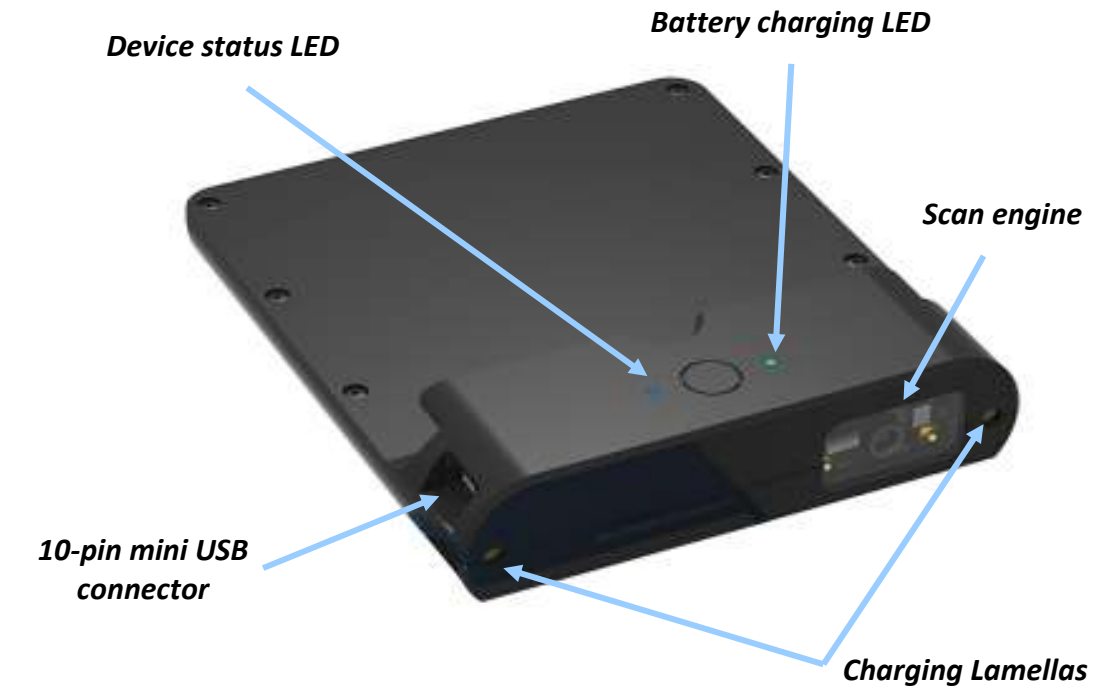
Quick Start:

Step	What to do	Purpose	Where to find more information
1	Fully charge your Linea TAB Mini as recommended.	The battery pack should be fully charged before use to ensure long battery life.	Charging Battery, Page 12.
2	Install Software.	Barcode Scanning & Card Reading requires software to be installed onto your iPad Mini	Please contact your distributor
3	Attach device to Linea TAB Mini	Connecting your Linea TAB Mini and iPad Mini	Attaching device, Page 11.

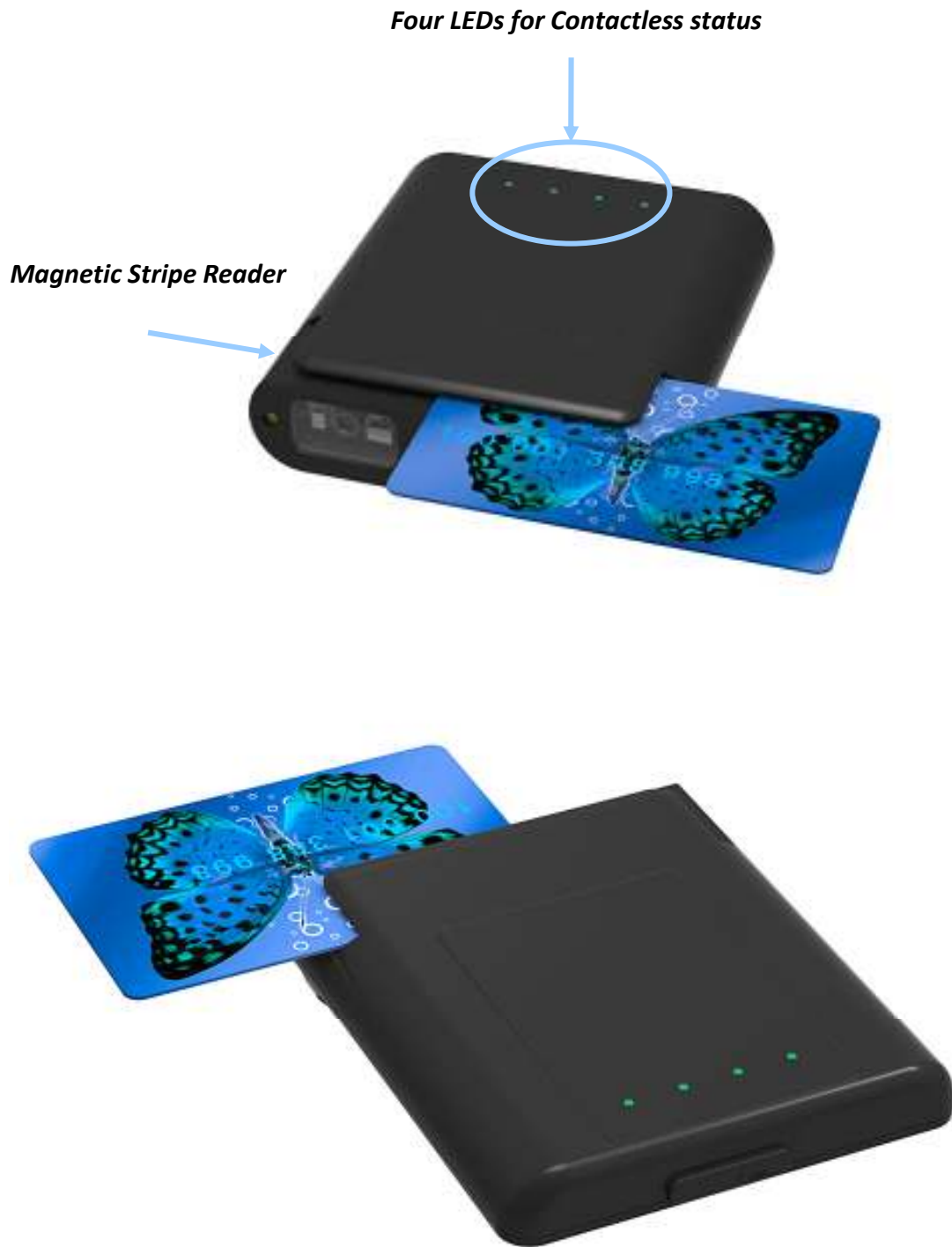
Table 4

Buttons overview

Front side view



Back side view



Attaching device



Operation modes

- Active mode - While iPad Mini is inserted.
 While the Linea TAB Mini application is active.

- Sleep mode - While iPad Mini is removed (after ~10sec).
 When iPad Mini On/Off button is pressed (after ~10sec).
 When iPad Mini “Auto-Lock” function is activated (after ~10sec).

Charging Battery

The Linea TAB Mini uses a 1100mAh Lithium-Ion rechargeable battery pack. Before first use, the battery pack should be charged for at least (4) hours. Linea TAB Mini can be charged via USB port or DATECS Power Station. When the Linea TAB Mini charging is started, automatically starts the charging of the inserted inside the cradle iPad Mini.

WARNING: To prevent electrical damage to the Linea TAB Mini and/or battery pack, please use approved USB to Mini USB cables only!

Linea TAB Mini has one battery status LED:

- The green LED is blinking – Linea TAB Mini is charging
- Continuous light Green LED – Linea TAB Mini is charged



Charging Modes

- Enable pass-through sync (enable sync between iPad Mini and PC with charge)
- Enable 1A USB charging (use this setting with 2A adapter or high-power USB HUB)

Barcode Scanning

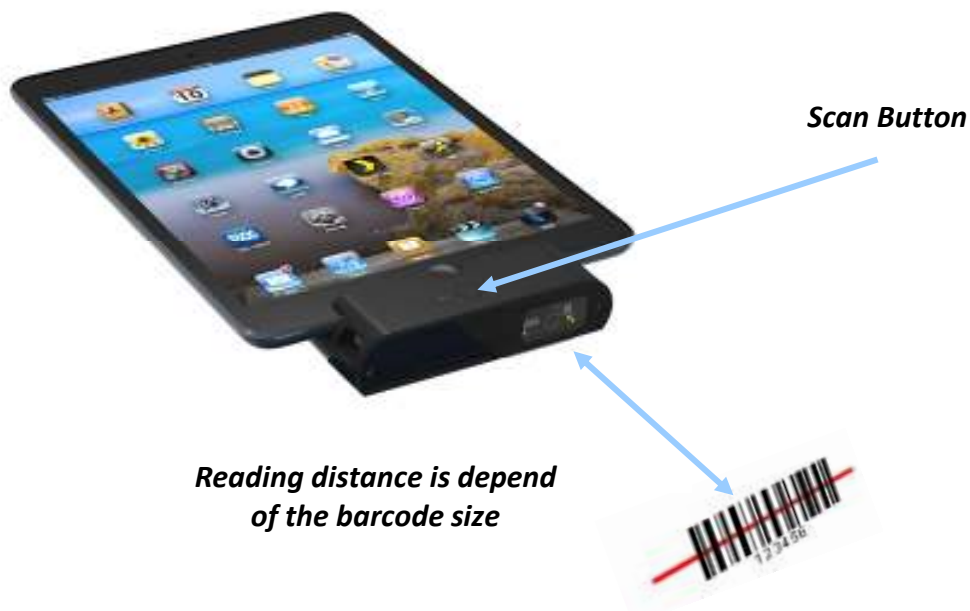
Using the 1D barcode scanner:

The Linea TAB Mini 1D uses a scan engine that supports one-dimensional (1D) barcode symbols. The effective reading distance of the barcode reader varies depending on the barcode size.

Scanning 1D Barcodes:

To scan a 1D barcode, first activate the scanner. Then position the scanning head as close as possible to the barcode label so that the scan line crosses both ends of the barcode as shown on the figure below.

Slowly pull back the unit, while increasing the distance between the barcode and scanning head, until the barcode has been read by the scanner.



Linea TAB Mini supports different types of scan:

- Single Scan
- Multi Scan

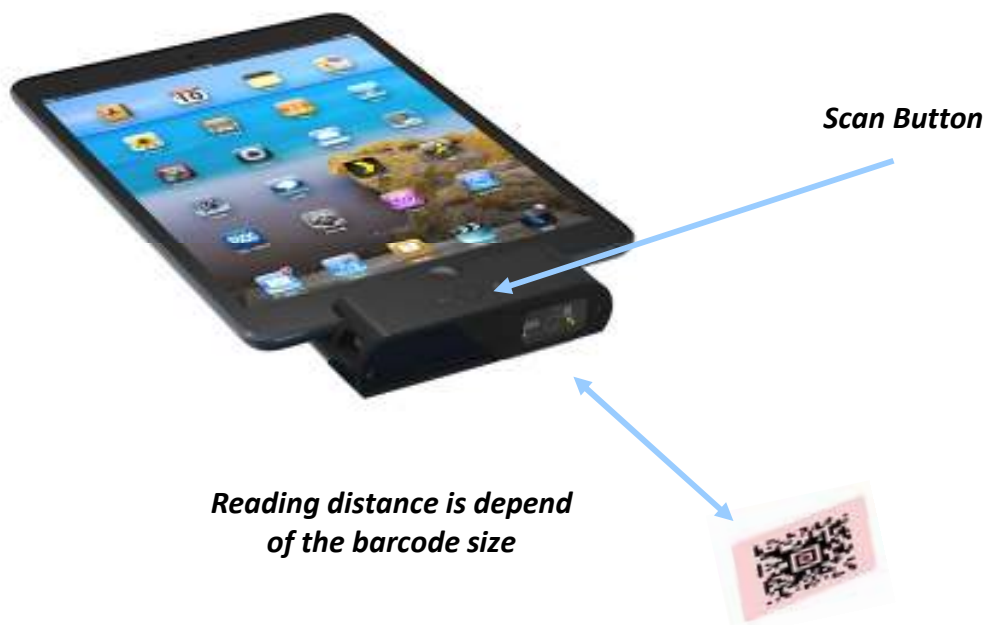
Using the 2D barcode scanner:

The Linea TAB Mini 2D uses a scan engines that supports one-dimensional (1D) and two-dimensional (2D) barcode symbols. The effective reading distance of the barcode reader varies depending on the barcode size.

Scanning 2D Barcodes:

To scan a 2D barcode fist activate the scanner. Then position the scanning head to the center of the barcode by aiming with the red laser beam and the illumination box is over the outer edges of the barcode, as shown in the figure below.

Slowly pull back the unit, while increasing the distance between the barcode and the scanning head, until the barcode has been read by the scanner.



Linea TAB Mini supports different types of scan:

- Single Scan
- Multi Scan

Card Reading

Reading Magnetic Stripes:

The Linea TAB Mini has a built-in magnetic card reader. The card reader incorporates a (3) track magnetic read head, requiring a single swipe to read field data from all three tracks.

The magnetic reading head faces up, towards the top of the bottom cover of the cradle. When swiping the card into the reader, the magnetic stripe must be facing down, as shown in the figure below. Keep the edge of the card flat on the inner base of the reader to ensure that the magnetic stripe passes over the reading head evenly.



Swipe direction

Contactless Card Reading

In order to use the RFID card reading function, special software must be used. Please contact your distributor in order to get the latest demo application and SDK.

Place the card on the shown spot and press the reading RFID card button on the application. The data will be sent from the Linea TAB Mini RFID reader to the Apple Device.

