

Linea TAB4

User Manual



Legal Notice

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

Compatibility

Made for

iPad (4th generation)

iPad Air

iPad Air 2

9.7-inch iPad Pro

12.9-inch iPad Pro

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

FCC Notice

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.

No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment

Exposure to Radio Frequency (RF) Signals

The LineaTab, incorporating the iPad, has been tested and meets applicable limits for radio frequency (RF) exposure. Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. The SAR limit is 1.6 watts per kilogram averaged over 1 gram of tissue.

During testing, the iPad devices, incorporated within the LineaTab, are set to their highest transmission levels and placed in positions that simulate use near the body.

Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified.

The LineaTab complies with the FCC safety requirements for RF exposure in accordance with FCC rule part §2.1093 and KDB447498 D01 for portable use conditions.

The LineaTab, incorporating the iPad, must not be co-located or operated in conjunction with any other antenna or transmitter.

Overview

Features:

Battery: Rechargeable Li-ion Battery - 1100 mAh,
Charging via USB to computer
Charging via 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 - Class II - 1D/2D Imager:

Single / Multi-scan mode
1D - MTBF: 30K hours (Laser Diode & Mirror Unit 10K hours)
2D - MTBF: 50K hours

Indicators: Visual: 2 LEDs for device status

I/O Connectors: 9-pin Lightning connector
10-pin female Mini-B USB connector for charging
and synchronization
External RS connector

Technical Data

Processor	32-bit ARM™ Cortex™ - M3 based Microcontroller	
Magnetic Card Reader (option)	<ul style="list-style-type: none"> • 3-track bi-directional reading • ISO 7810, 7811 and 7813 	
Secure Magnetic Card Reader (option)	<ul style="list-style-type: none"> • PCI PTS 3.x certified • DUKPT and Fixed Key Management • 3DES-112, AES-128, AES-256 encryption algorithms 	
Contactless Card Reader (option)	<p>ISO/IEC 14443 Type-A/MIFARE:</p> <ul style="list-style-type: none"> - MIFARE MINI - MIFARE CLASSIC-1K, MIFARE CLASSIC-4K - MIFARE ULTRALIGHT, ULTRALIGHT-C - MIFARE PLUS 2K/4K - MIFARE DESFire - and other <p>ISO/IEC 14443 Type-B:</p> <ul style="list-style-type: none"> - supports most of the cards <p>ISO/IEC 15693:</p> <ul style="list-style-type: none"> - supports most of the cards 	
Barcode Reader (option)	1D	<ul style="list-style-type: none"> • Opticon MDL1000* - Laser Barcode Scan Engine
	2D	<ul style="list-style-type: none"> • Newland EM3070* - Image Sensor 752x480 CMOS, High Performance 2D Imager Scan Engine • Intermec EA-30 - Image Sensor 752x480 CMOS, High Performance 2D Imager Scan Engine • Opticon MDI3100 - Image Sensor 752x480 CMOS, High Performance 2D Imager Scan Engine
Supported Barcode Types	<ul style="list-style-type: none"> • 1D* Barcode Scanner Supported Symbolologies: JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128(EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey Postal code: Chinese Post, Korean Postal Authority code Composite codes, MicroPDF417, PDF417 • 2D* Imager Supported Symbolologies: Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey PDF417, Data Matrix (ECC200, ECC000, 050, 080, 100, 140), QR Code 	
Battery	Rechargeable Li-Ion Battery 3.7V / 1100 mAh	
Connectivity	<ul style="list-style-type: none"> • Apple 9 pin connector • Pass-through sync through mini USB • BT 2.0 Class 2 (option) <ul style="list-style-type: none"> - SPP - Serial Port Profile • External serial port 	

Device compatibility	iPad (4th generation), iPad Air, iPad Air 2, 9.7-inch iPad Pro, 12.9-inch iPad Pro
Buttons	2 scan buttons
LED indication	2 LEDs for battery and device status
Audio indication	Electro - Magnetic Buzzer
Weight, g	115 with battery and 2D barcode reader (without iPad)
Dimensions (LxWxH), mm	128 x 51 x 45
Environmental	<ul style="list-style-type: none"> • Operating: -10⁰C to +40⁰C / 35 to 85% RH • Storage: -20⁰C to +50⁰C / 10 to 90% RH
Power Supply	<ul style="list-style-type: none"> • 5V through mini USB • 5V through single or 5 station charger
Accessories	<ul style="list-style-type: none"> • Single station charger - SC-1 • 5 stations charger - GC-5 • Holster • Stand

Table 1

* Specifications subject to change without notice.

Box Contents

Your Linea Tab comes with the following items listed below:




Item	Part Number	Descriptions	Image
1	Linea Tab4	Linea Tab4 Reader / Scanner	
2	USB A to mini B USB	USB sync cable	
3	Linea Tab User Manual	User's manual	

Table 2

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

Getting Started

Device overview

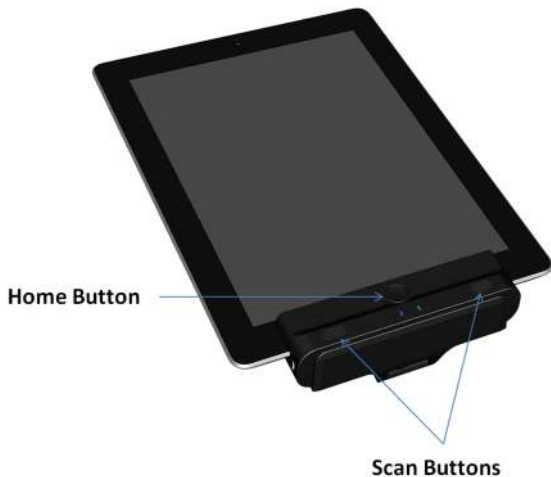


Fig. 1



Fig. 2

The Linea Tab allows you to scan barcode and capture Magnetic Strip information onto your iPad4. Before using your Linea Tab the battery should be properly charged. The following Quick Start guide will help to get your Linea Tab ready for use.

Quick Start:

Step	What to do	Purpose	Where to find more information
1	Fully charge your Linea Tab4 as recommended.	The battery pack should be fully charged before use to ensure long battery life.	Charging Battery, Page 10.
2	Install Software.	Barcode Scanning & Card Reading requires software to be installed on to your iPad4	Please contact your distributor, Pages 12 to Page 15
3	Attach device to iPad4.	Connecting your Linea Tab and iPad4.	Page 11.

Table 3

Charging Battery

Charging the Linea Tab:

The Linea Tab4 uses a Lithium-Ion rechargeable battery pack. Before first use, the battery pack should be charged for at least (4) hours.

To prevent electrical damage to the Linea Tab4 and/or battery pack, please use approved USB to Mini USB cables only.



Charging via USB cable
(type A to mini USB), connected
to PC 5V/260mA



Fig. 3

InfineaTAB4 can be charged from USB port or Datecs power station. When the InfineaTAB4 is charging, green led is blinking (LED2). When the device is fully charged, green led is continuously light (stop blinking).

Attaching Device

When using the Linea Tab4, care must be taken to ensure the Linea Tab4 9-pin connector and the iPad4 connector are not accidentally damaged. The figures below show how to attach your device to the Linea Tab.

Blue led will blink fast, when the iPad4 is connected to Linea TAB4. (Or press scan buttons for start device)



Fig. 4

Slide the device as shown on the figure above.

1D Barcode Scanning

Using the 1D barcode scanner:

The Linea Tab4 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 scan head as close to the barcode label as possible so that the scan line crosses both ends of the barcode as shown in the figure below.

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



Fig. 5

2D Barcode Scanning

Using the 2D barcode scanner:

The Linea Tab4 2D uses a scan engine 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 first activate the scanner. Then position the scan head to center the red aiming laser near the center of the barcode and the illumination box is over the outer edges of the barcode as shown in the figure below.

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



Fig. 6

Card Reading

Reading Magnetic Strips:

The Linea Tab4 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 read head faces up towards the top of the cradle. When placing the card into the reader, the magnetic strip must be facing up 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 strip passes over the read head evenly.

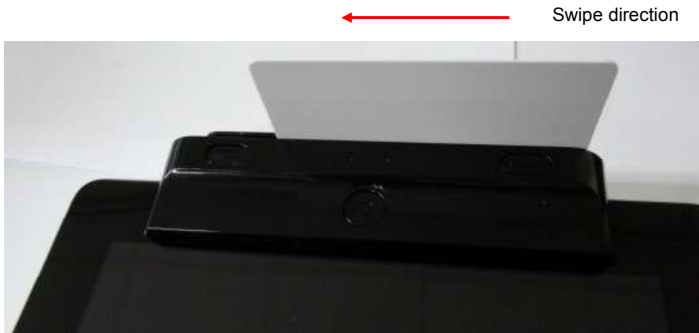


Fig. 7

User Notes:

To use the magnetic card reader feature, special software must be used to read and process the card information.

RFID 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 show spot and press the read RFID card button on the application. The data will be send from the Linea Tab4 RFID reader to the iPad.



Fig. 8