

Linea TAB4

User Manual



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 (4th generation)

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.

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
RFID Card Reader (option)	<ul style="list-style-type: none"> • MiFARE Mini • MiFARE Classic 1K / 4K • MiFARE Ultra-Light / Ultra-Light-C • MiFARE Plus 2K / 4K • ISO 14443 • ISO 15693 • DESFire card • FelCa
Barcode Reader (option)	<ul style="list-style-type: none"> • Opticon MDL1000* - Laser Barcode Scan Engine • 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 4
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: -10°C to +40°C / 35 to 85% RH • Storage: -20°C to +50°C / 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 9.
2	Install Software.	Barcode Scanning & Card Reading requires software to be installed on to your iPad4	Please contact your distributor, Pages 11 and 12.
3	Attach device to iPad4.	Connecting your Linea Tab and iPad4.	Page 10.

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.

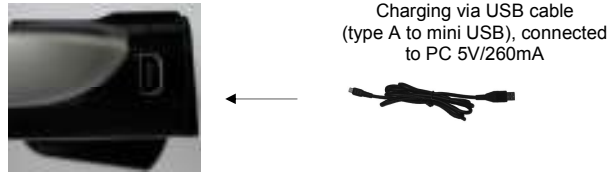


Fig. 3

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