

User Manual

INFINEAX - MINI



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VERSION: January 2017

Version	Description	Date
1.0	First release	27.01.2016
2.0	Updated all document	09.01.2017

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 mini

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

FCC Notice

FCC ID: YRWINFINEAX-M

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 InfineaX-Mini, incorporating the iPad Mini, 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 Mini devices, incorporated within the InfineaX-Mini, are set to their highest transmission levels and placed in position that simulate use against the body, with 5mm separation. Carry the InfineaX-Mini at least 5mm away from your body to ensure exposure levels remain at or below the as-tested levels.

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 InfineaX-Mini 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 InfineaX-Mini, incorporating the iPad Mini, must not be co-located antennas or transmitters not inherent to the iPad

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1. Technical specification

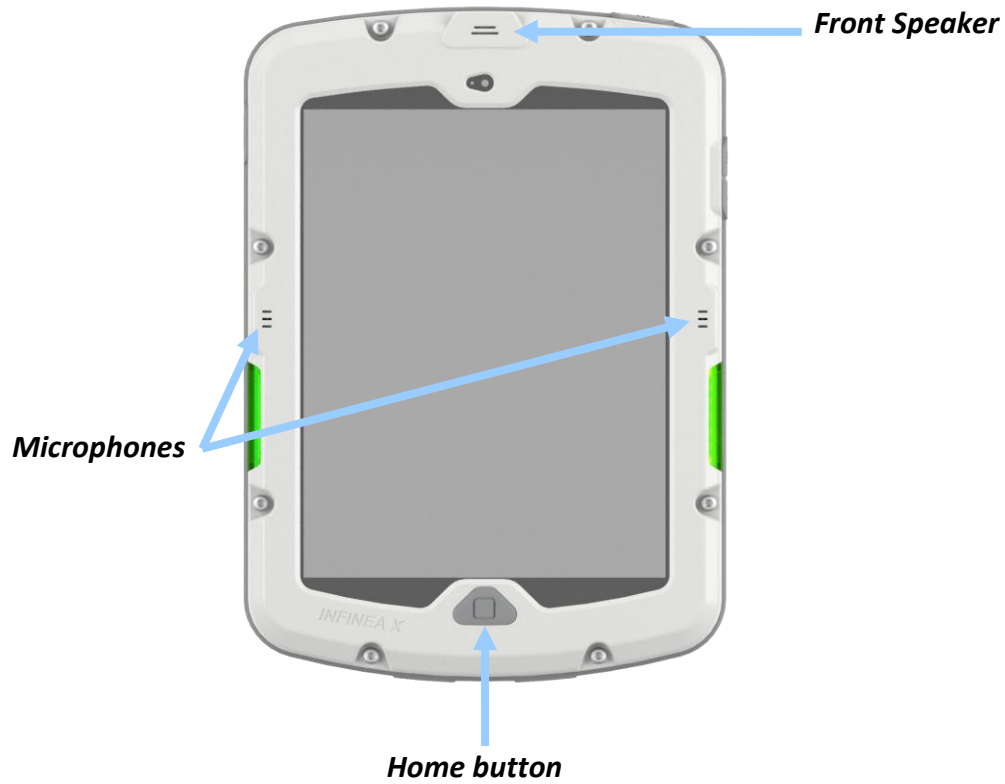
Processor	32-bit ARM™ Cortex™ - M3 based Microcontroller
Barcode Reader (option)	• Intermec EA-30* - Image Sensor 752 x 480 CMOS, High Performance 2D Imager Scan Engine • Intermec EA-31 - Image Sensor 752 x 480 CMOS, High Performance 2D Imager Scan Engine
Supported Barcode Types	* Imager Supported Symbolologies: 1D symbolologies: EAN/UPC, GS1 Databar (limited expanded & omni-directional), RSS, Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved/Matrix/ Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, postal codes (Australian Post, BPO, Canada Post, Dutch Post, Japan Post, PostNet, Sweden Post) 2D symbolologies: Data Matrix, PDF417, Micro PDF 417, Codablock, Maxicode, QR, Aztec, GS1 composite codes, Direct Part Marking Reading multicode and barcodes on mobile phone screens available.
Battery	• Fuel Gauge microcontroller for remaining battery capacity, state-of-charge, battery voltage and etc. • Rechargeable hard pack Li-Ion Battery 3.7V / 1900 mAh • Rechargeable hard pack Li-Ion Battery 3.7V / 3800 mAh (option)
Connectivity	• Apple 9 pin connector • Pass-through sync through special 4 pin waterproof connector • Pass-through sync through mini USB • BT 2.0 Class 2 (option) • 3.5 mm TRRS Audio Jack
Device compatibility	Apple iPad mini
Buttons	• 6 x Scan buttons • Battery status button
LED indication	18 LEDs for battery and emergency status
Audio indication	Electro-Magnetic Buzzer
Vibration capabilities	Micro Vibration Motor - Rated speed: 14,000 ± 2,000rpm
Sound capabilities	• 1.7-W mono fully differential audio power amplifier • Front Speaker – 150mW • 2 x Rear Speakers – 2 x 750mW • 2 x Electret Condenser Microphones
Certifications	FCC, Apple® Mfi
Weight, g	510g with battery and 2D barcode reader (without iPad Mini)
Dimensions (LxWxH), mm	235 x 160 x 36
Environmental	• Operating: -10°C to +40°C / 5% to 90% RH • Storage: -20°C to +50°C / 5% to 90% RH
Power Supply	• 5V through special 4 pin waterproof connector • 5V through single or 5 station charger

** Specifications subject to change without notice.*

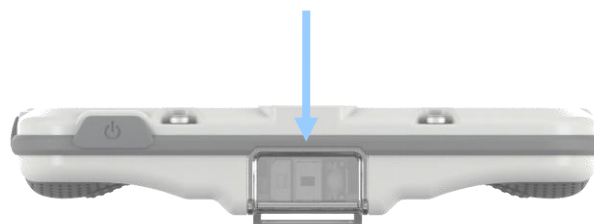
2. Box Contents

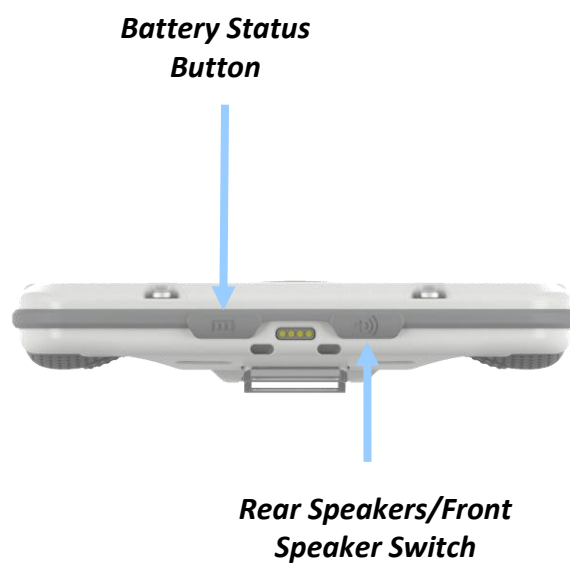
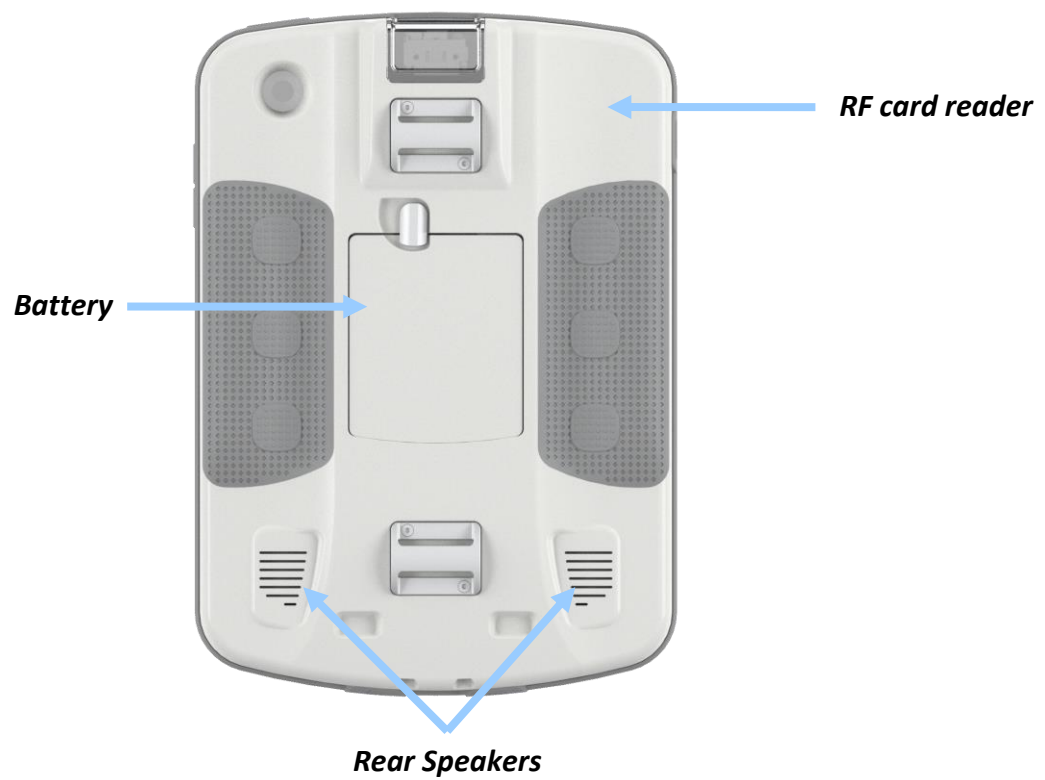
Item	Part Number	Descriptions	Image
1	InfineaX-Mini	InfineaX-Mini Scanner	
2	USB A to mini B(0.9m)	USB sync cable	
3	InfineaX-Mini User Manual	User's manual	

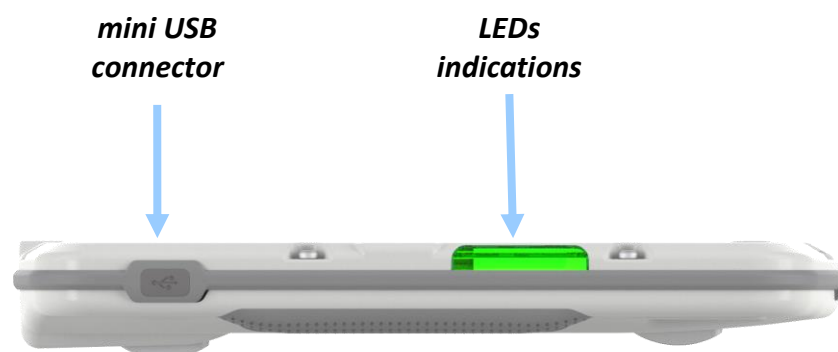
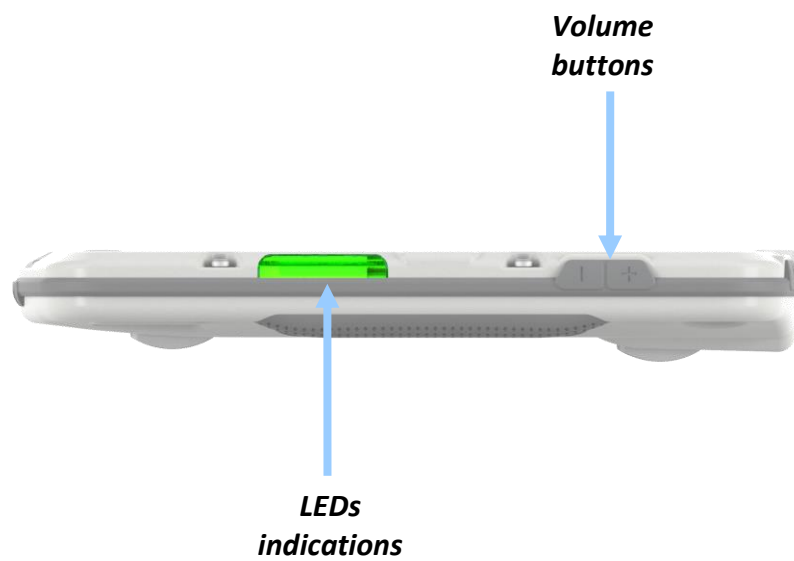
3. General View



Scan Engine







4. Operation Modes

To insert iPad mini in InfineaX-Mini, first remove all eight screws from top cover. Then attach iPad mini to 9-pin lightning connector. After that, insert audio jack in iPad mini connector.

4.1 Battery status level

(Press battery level button)

- Battery percentage above 75% – LEDs flash on green
- Battery percentage between 50-75% – LEDs blinks on green
- Battery percentage between 25-50% – LEDs blinks on orange
- Battery percentage between 10-25% – LEDs blinks on red
- Battery percentage under 10% – One red LED is blinks

(In operating mode)

- Low battery indicator - Battery percentage under 25% - one red LED is light all the time

4.2 Charging indication and current select

- When the device is charging, green led is light
- Charging current of iOS device can be select between 500mA and 1000mA, when is charging via USB adapter

4.3 Automatic charge

- When the battery level is above 25% – InfineaX-Mini is automatically start to charge iPad Mini. When battery level is drop under 10%, charge automatically will stop.

4.4 Vibration on scan

- This function can be enabled or disabled

4.5 Pass-through sync through mini USB

- Transferring data between iPad Mini and PC or MAC. This function can be enable or disable.

4.6 Enable external speaker

- This function can be enabled or disabled (from setting or with right side button), switch between rear and front speaker.
- When the rear speaker is active, blue led will light.

4.7 Bluetooth transferring data

- This function is allow to transfer data with other device via Bluetooth.

4.8 Reset the InfineaX-Mini

- Holding on same time status and scan button for ~5sec

4.9 Reset Barcode engine

- When is selected, barcode engine will return to default values.

4.10 Update firmware of the device

- Firmware of InfineaX-Mini can be update for application. Before proceed update make it sure, battery of the iOS device and InfineaX-Mini is more that 20%.

4.11 Update firmware of Barcode engine

- Firmware of barcode engine can be update from application. Before proceed update make it sure, battery of the iOS device and InfineaX-Mini is more that 20%.

Some of the operating modes, may be different, depends of the firmware version.

4.12 RF card reading

- Start the application for iOS and select tab “RF”. Then place the card on the spot with RF symbol (backside of the device).