



INFINITE  
PERIPHERALS

STIMARE 

# INFINEA<sup>®</sup> TAB M

For iPhone<sup>®</sup> 6 Plus



INFINEA TAB M

USER MANUAL

## **CONTACT INFORMATION**

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## **LEGAL NOTICE**

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“Made for iPhone” means that an electronic accessory has been designed to connect specifically to the iPhone 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 iPhone may affect wireless performance.

## **COMPATIBILITY**

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Made for:

- iPhone 6 Plus mobile digital device

iPhone® is a trademark of Apple, Inc., registered in the U.S. and other countries.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by Apple is under license.

Infinea® is a registered trademark of Infinite Peripherals, Inc.

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## ***BOX CONTENTS***

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The Infinea Tab M® for iPhone 6 Plus® ships with the items listed below:

<b>Qty</b>	<b>Description</b>	<b>Image</b>
1	Infinea Tab M for iPhone 6 Plus	
1	USB charge/sync cable*	

*\*Note: Box contents and part numbers may vary based on order configuration.*

## ***ACCESSORIES***

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Please visit our website at [www.ipcprint.com](http://www.ipcprint.com), or contact your Infinite Peripherals (IPC) account representative, for additional information about our current and future product accessory offerings.

## ***INFINEA TAB M FEATURES***

The Infinea Tab M allows mobile employees to convert their iPhone into a powerful solution for retail, warehousing, supply chain, ticketing and hospitality industries. It includes a 3-track magnetic stripe reader (encrypted or unencrypted), optional 2D barcode scanner, optional Bluetooth, and/or optional RFID.

<b>Feature</b>	<b>Description</b>
<b>Battery</b>	The Infinea Tab M includes a Lithium ion rechargeable battery.
<b>1D/2D Barcode Scanner</b> <i>(Optional)</i>	The Infinea Tab M supports one-dimensional (1D) and two-dimensional (2D) barcode symbols, which can be read in any direction (omni-directional). The effective reading distance of the barcode reader varies depending on the barcode size. The barcode scanner is capable of reading barcodes on an LCD screen.
<b>Magnetic Card Reader</b>	The Infinea Tab M has a built-in magnetic card reader. The card reader incorporates a (3) track, bi-directional magnetic read head, requiring a single swipe to read field data from all three tracks.
<b>Contactless Card Reader</b> <i>(Optional)</i>	The Infinea Tab M has an RFID ( <i>Radio Frequency Identification</i> ) tag/ card reader with read and write capability at 13.56 MHz. The RFID reader incorporates several RFID formats, depending on the model of your Infinea Tab M.
<b>Indicators</b>	The Infinea Tab M has 2 LEDs for battery and device status indication and 4 LEDs for contactless payment transactions.
<b>Bluetooth Compatibility</b>	Available Bluetooth 2.0 SPP compatibility, which allows connection to a Bluetooth peripheral, such as a printer.
<b>Syncing</b>	The Infinea Tab M enables your iOS device to be synced with iTunes.

## GETTING STARTED

### Warnings, Cautions and Notes

Please observe the *Warnings*, *Cautions* and *Notes* presented throughout this manual. An explanation of these items is provided below:

Symbol		Description
	<b>WARNING:</b>	Actions may result in a serious outcome (e.g., injury, death or other adverse affect) to the user.
	<b>CAUTION:</b>	Special care is required to avoid damage to the product or other property.
	<b>Note:</b>	Important points and tips about the product are being provided.

### First Steps

The Infinea Tab M allows you to scan barcodes and capture magnetic stripe information. Before using your Infinea Tab M, the battery should be properly charged. The following information will help to get your Infinea Tab M ready for use.

Step	Purpose	Additional Information
1. Integrate your Infinea Tab M with the iOS device	Connecting your Infinea Tab M to the iOS device.	See manual section: <b>INTEGRATING YOUR INFINEA TAB M WITH THE iOS DEVICE</b>
2. Charge your Infinea Tab M	The battery pack should be fully charged before use to ensure long battery life.	See manual section: <b>CHARGING YOUR INFINEA TAB M</b>
3. Install Software	Device features requires the installation of software on your iOS device.	See manual section: <b>DEVELOPING APPLICATIONS</b>
4. Power on your Infinea Tab M.	Initialize barcode scanner, MSR and/or RFID functions for use.	See manual section: <b>POWERING ON YOUR INFINEA TAB M</b>

## ***DEVELOPING APPLICATIONS FOR YOUR INFINEA TAB M***

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Software is not provided with your Infinea Tab M. Please contact your reseller or Infinite Peripherals for Third Party software solutions.

Integrating the Infinea Tab M with your iOS application requires the use of the Infinite Peripherals Universal SDK. The SDK incorporates an API specifically for developing applications to use the barcode scanner, magnetic strip and contactless reader functionalities of the Infinea Tab M.

For additional details on using the Infinite Peripheral Universal SDK, please refer to the SDKs documentation.

For the latest Infinite Peripheral Universal SDK please visit our developer portal at:

**<http://www.ipcprint.com/developer>**

## ***PROGRAMMABLE OPTIONS***

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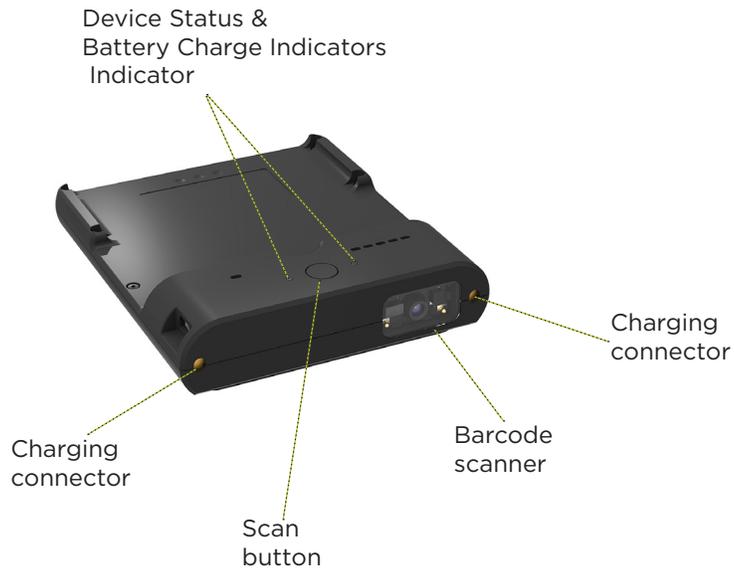
Below are some optional settings for the Infinea Tab M which can be configured via the SDK.

<b>Programmable Options</b>	<b>Description</b>
<b>Charging Current</b>	Charging current may be set to 500mA (default) or 1A
<b>Set Charging</b>	The Infinea Tab M can charge the iPhone 6 Plus from its internal battery by enabling the “setCharging” setting. When the Linea Pro 6 battery is above 20%, it will begin to charge the iPhone 6 battery
<b>Scan Mode</b>	<p>The Infinea Tab M supports the following Scan modes:</p> <ul style="list-style-type: none"> <li>• <b>Single Scan</b> Scanning a single barcode by pressing and releasing the Scan button.</li> <li>• <b>Multi Scan</b> Scanning multiple barcodes by pressing and holding the Scan button.</li> <li>• <b>Motion-Detect</b> Scanner is activated automatically when barcode is placed near the barcode engine.</li> <li>• <b>Multi-Scan without Duplicates</b> Scanning multiple barcodes without duplicates.</li> </ul>
<b>Pass Through Sync</b>	When the pass through sync setting is enabled and the USB cable is plugged in, the iPhone 6 Plus may be synced with a PC or MAC.
<b>Time Out</b>	Set timeout for 60 (default) or up to 5400 seconds.

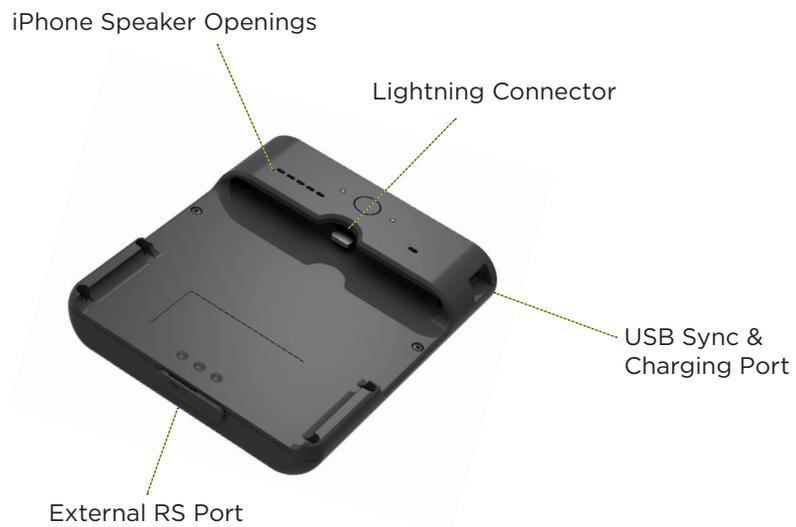
## **INFINEA TAB M PRODUCT OVERVIEW**

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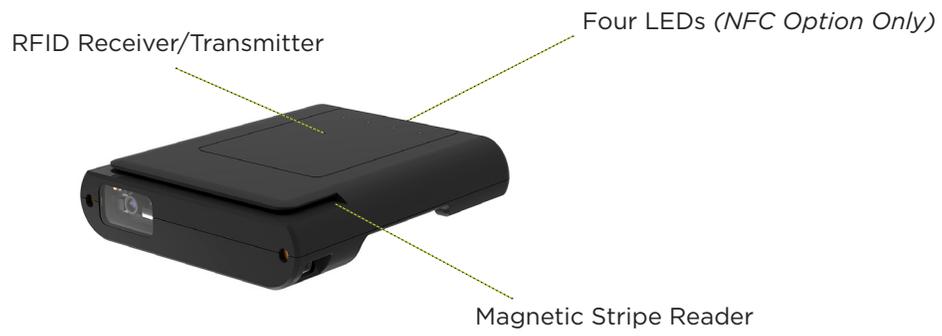
### **Infinea Tab M for iPhone 6 Plus**



*Figure 1: Infinea Tab M (Front View)*



*Figure 2: Infinea Tab M (Side View)*



*Figure 3: Infinea Tab M (Back View)*

## **ASSEMBLING YOUR INFINEA TAB M**

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### **Connecting the iOS device with the Infinea Tab M**

1. Align the home button on the iOS device and the half circle slot on the Infinea Tab M, as shown below.



*Figure 4: Infinea Tab M Assembly - Step 1*

2. Gently slide the Infinea Tab M into position, ensuring the iOS device is firmly seated on the Lightning connector.



*Figure 5: Infinea Tab M Assembly - Step 2*

## **CHARGING YOUR INFINEA TAB M**

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The Infinea Tab M uses a Lithium-Ion rechargeable battery. Before the first use, the battery should be fully charged.

1. Connect mini USB charger cable into the USB port shown below.



*Figure 6: USB Port*

### **CAUTION:**



Use only approved/recommended 5 volt, 2.1 amp DC adapters to charge the iPad and Infinea Tab M together. Failure to do so may result in problems charging the unit and/or potentially damage the Infinea Tab M and/or iPhone.



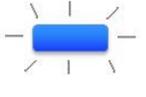
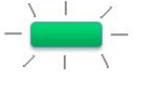
**DO NOT** force the plug into the connector when connecting the mini USB charging cable as it may damage the connector.

## ***STATUS AND OPERATIONAL MODES***

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The Infinea Tab M uses LEDs to indicate various conditions of operation, including active connection and charging conditions. The following table explains these conditions and their corresponding LED indication.

### **LED STATUS INDICATORS**

	<b>Rapid flashing</b> indicates an active connection with the iOS Application.	<b>Slow flashing</b> indicates NO active connection with the iOS Application.
	Flashing indicates battery is charging.	
	Solid (non-flashing) indicates battery fully charged.	

## **USING YOUR INFINEA TAB M FOR IPHONE 6 PLUS**

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The Infinea Tab M 2D model uses a scan engine that supports two-dimensional (2D) and one dimensional (1D) barcode symbols. The effective reading distance of the barcode reader varies depending on the barcode size.

### **Barcode Scanner - 1D Barcodes**

#### **To Scan a 1D Barcode:**

1. Activate the scanner by pressing the Scan button.
2. Position the scan head near the center of the barcode. The pointer should extend outside the edges of the barcode, as shown in the figure below.
3. Slowly pull back the unit increasing the distance between the barcode and scan head until the scanner has read the barcode.



*Figure 7: 1D Barcode Scanning*

## Barcode Scanner - 2D Barcodes

The Infinea Tab M 2D model uses a scan engine that supports two-dimensional (2D) and one dimensional (1D) barcode symbols. The effective reading distance of the barcode reader varies depending on the barcode size.

### To Scan a 2D Barcode:

1. Activate the scanner by pressing the Scan button.
2. Position the scan head near the center of the barcode. The pointer should extend outside the edges of the barcode.
3. Slowly pull the unit back, increasing the distance between the barcode and scan head, until the barcode is within the imager illumination box and the scanner reads the barcode successfully.



*Figure 8: 2D Barcode Scanning*

## MAGNETIC STRIPE READER

The Infinea Tab M has a built-in magnetic stripe reader (MSR). The card reader incorporates a (3) track magnetic read head requiring a single swipe to read field data from all three tracks.

### To Use the Magnetic Stripe Reader:

1. Swipe the card with an even sliding motion in the direction shown in the figure below.



*Figure 9: Magnetic Stripe Reader*

### Note:

- i** When swiping the card through the reader, 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.
- i** The magnetic card must face the same direction as the face of the iOS device.

## RFID TAG/CARD READER

Infinia Tab M comes with a built-in RFID tag/card reader. The RFID reader incorporates several RFID formats, depending on the model of your Infinia Tab M. The RFID receiver/transmitter is located on the back of the device, below the LEDs and is denoted by the WiFi symbol.

### To Use the RFID Reader:

1. Press the contactless card reading option in the application on the iOS screen.
2. Place the RFID tag/card over the RFID label on the transmitter/receiver, keeping the face of the tag/card flat with the receiver/transmitter as close as possible.

The data will be read and sent from the Infinia Tab M contactless reader to the iOS Device.



*Figure 10: Contactless Card Reader*

### Note:

-  Depending on the type of RFID tags/cards being used, it may be necessary for tags/cards to make direct contact with the surface where the RFID receiver/transmitter is located for proper reading/writing.

## SYNCING

To sync your iOS device with iTunes through the Infinea Tab M follow the steps below:

1. Connect the Infinea Tab M to a computer using a Mini USB cable.
2. Wait for the beep indicating the device is in sync mode beep. The LED will begin flashing green.



*Figure 11: iOS Syncing*

The Infinea Tab M should now be in sync mode. To disable Sync mode, exit iTunes and unplug the Mini USB cable from the Infinea Tab M.

**Note:**

-  Please refer to the iTunes documentation for syncing your iOS device
-  There are no debugging capabilities on any Lighting connector products.

## ***SERVICING YOUR INFINEA TAB M***

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### **REPLACING THE INFINEA TAB M BATTERY**

The Infinea Tab M is designed with an internal, Lithium-ion rechargeable battery. If the Infinea Tab M battery is not charging properly, or the unit not powering on, please contact an Infinite Peripherals representative or IPC certified service center for servicing.



*Figure 12: Battery Replacement/Service*

#### **CAUTION:**



Infinea Tab M with encrypted functionality has special key protection features. Any attempt to open the unit may result in the erasure of the encryption key and disabling of the card reading features. See ***SRED Encrypted MSR Information*** below for additional information.

## ***SRED ENCRYPTED MSR INFORMATION***

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Integrating the PCI PTS 3X SRED certified Infinea Tab M into your solution requires proper maintenance of the Infinea Tab M.

This includes maintaining proper battery charge to prevent the Infinea Tab M from unintentionally entering tamper detect mode. When the Infinea Tab M battery becomes depleted or if the battery is removed, the magnetic read head becomes disabled and renders the unit unusable. This will require the unit to be sent back to Infinite Peripherals for servicing.

To prevent down time caused by the magnetic read head security feature becoming disabled follow the recommendations below:

- **DO NOT** allow the Infinea Tab M battery to fully discharge.
- **DO NOT** attempt to remove battery from the Infinea Tab M.
- Always place the Infinea Tab M on charging station when not in use for extended periods.

### **CAUTION:**



When the Infinea Tab M battery is fully discharged and enters the Tamper Detect mode, the unit may only be reactivated at IPC or an authorized service facility.

## **TROUBLESHOOTING**

### **Troubleshooting > General**

If the Infinea Tab M is not responding properly, refer to the table below for possible causes:

<b>Problem</b>	<b>Possible Cause</b>
<b>The Infinea Tab M won't connect to the iOS device</b>	<ul style="list-style-type: none"> <li>• Infinea Tab M battery is too low or fully discharged</li> <li>• Infinea Tab M not powered on</li> <li>• The Infinea tab is not properly connected to the iPhone 6 Plus in the iOS settings menu</li> </ul>
<b>The Infinea Tab M connects, but won't accept payment</b>	<ul style="list-style-type: none"> <li>• Infinea Tab M battery is too low or fully discharged</li> <li>• Infinea Tab M is asleep or not powered on</li> <li>• The card could not be read</li> <li>• Device is in a tampered state</li> </ul>
<b>The Infinea Tab M accepts swipe, but only partial card data is returned</b>	<ul style="list-style-type: none"> <li>• The card was swiped too slowly or not properly inserted into the Infinea Tab</li> <li>• The magnetic stripe on the card is damaged</li> <li>• The magnetic read head is faulty or damaged</li> </ul>

### **Troubleshooting > Barcode Scanner**

If the Infinea Tab M is not scanning Barcodes properly, refer to the table below for possible causes:

<b>Problem</b>	<b>Possible Cause</b>
<b>Scanner does not power on</b>	<ul style="list-style-type: none"> <li>• Infinea Tab M not powered on</li> <li>• Infinea Tab M battery is too low or fully discharged</li> <li>• Faulty scan engine</li> </ul>
<b>No barcode data returned during scanning</b>	<ul style="list-style-type: none"> <li>• Barcode is unreadable</li> <li>• Infinea TAB M battery is too low or fully discharged</li> <li>• Faulty scan engine</li> <li>• Software decoded incorrectly</li> </ul>
<b>Partial barcode data returned during scanning</b>	<ul style="list-style-type: none"> <li>• Barcode is unreadable</li> <li>• Faulty scan engine</li> <li>• Software decoded incorrectly</li> </ul>
<b>Unable to perform multi-scanning</b>	<ul style="list-style-type: none"> <li>• Multi-scan mode not enabled</li> <li>• Software does not support multi-scans</li> </ul>
<b>Unable to hear scanner beep</b>	<ul style="list-style-type: none"> <li>• Sound mode not enabled</li> <li>• Infinea Tab M battery is fully discharged</li> </ul>
<b>Unable to scan certain barcodes symbols</b>	<ul style="list-style-type: none"> <li>• Barcode type is not enabled</li> <li>• Barcode type is not supported</li> </ul>

## Troubleshooting > MSR Card Reader

If the Infinea Tab M is not reading magnetic stripes properly, refer to the table below for possible causes:

Problem	Possible Cause
No card data returned during swiping	<ul style="list-style-type: none"> <li>• Infinea Tab M is not powered on</li> <li>• Swipe method incorrect</li> <li>• Faulty read head</li> <li>• Magnetic stripe is unreadable</li> <li>• Secured head reader requires decryption of encrypted data</li> <li>• Device is in a tampered state</li> </ul>
Partial card data returned during swiping	<ul style="list-style-type: none"> <li>• Swipe method is incorrect</li> <li>• Faulty read head</li> <li>• Magnetic stripe is unreadable</li> </ul>

## Troubleshooting > RFID Reader

If the Infinea Tab M is not reading RFID Tags/Cards properly refer to the table below for possible causes:

Problem	Possible Cause
RFID does not activate	<ul style="list-style-type: none"> <li>• Infinea Tab M not powered on</li> <li>• Infinea Tab M battery is too low or fully discharged</li> <li>• Faulty RFID reader</li> </ul>
No RFID data returned during reading.	<ul style="list-style-type: none"> <li>• Infinea Tab M battery is too low or fully discharged</li> <li>• Unreadable RFID tag/card</li> <li>• Faulty RFID reader</li> <li>• Software decoded incorrectly</li> </ul>
Partial RFID data returned during reading.	<ul style="list-style-type: none"> <li>• Unreadable RFID tag/card</li> <li>• Faulty RFID reader</li> <li>• Software decoded incorrectly</li> </ul>
Unable to read certain RFID Tag/ Card.	<ul style="list-style-type: none"> <li>• RFID type is not compatible</li> <li>• RFID type is not supported</li> </ul> <p>See <b>Technical Data</b> for additional information</p>

If you are having problems with your Infinea Tab M which are not addressed by the table above, contact technical support at [support@ipcprint.com](mailto:support@ipcprint.com)

## TECHNICAL DATA

MECHANICAL	
<b>Compatibility</b>	iPhone 6 Plus
<b>Processor</b>	32-bit ARM™ Cortex™ - m3 based Micro controller
<b>Connectivity</b>	Apple Lightning™ connector Pass-through sync via mini USB
<b>Weight</b> <i>(without iOS device)</i>	140 grams (4.9 oz.)
<b>Dimensions</b> <i>(L x W x H)</i>	103mm x 88mm x 23.5mm (4.1" x 3.9" x .93")
<b>Buttons</b>	Scan/Status Button
<b>Port</b>	Mini USB for charge and sync
ELECTRICAL	
<b>Barcode Scanner</b>	2D High Speed Imager (supports all major 1D and 2D barcodes)
<b>Battery Capacity</b>	Rechargeable Li-ion Battery 3.7V/1100mAh, charging from USB port or charging station
<b>Battery Life</b>	Over 10,000 scans and swipes per full charge.
<b>Power Supply</b>	5V through mini USB 5V through single or 5-station charger
<b>Magnetic Card Reader</b>	3-track bi-directional reading ISO 7810, 7811 and 7813
<b>Contactless Card Reader (RFID)</b>	<p><b><u>ISO/IEC 14443 Type A/MIFARE</u></b></p> <ul style="list-style-type: none"> <li>• MIFARE MINI</li> <li>• MIFARE CLASSIC-1K, MIFARE CLASSIC-4K</li> <li>• MIFARE ULTRALIGHT, ULTRALIGHT-C</li> <li>• MIFARE PLUS 2K/4K</li> <li>• DESFire card</li> <li>• and others</li> </ul> <p><b><u>ISO/IEC 14443 Type B</u></b></p> <ul style="list-style-type: none"> <li>- Supports most cards</li> </ul> <p><b><u>ISO/IEC 15693</u></b></p> <ul style="list-style-type: none"> <li>- Supports most cards</li> </ul>
<b>Contactless Card Reader</b>	<ul style="list-style-type: none"> <li>• AMEX ExpressPay MagStripe and EMV</li> <li>• Discover ZIP and D-PAS</li> <li>• MasterCard PayPass MagStripe and M/Chip</li> <li>• VISA PayWave MSD and qVSDC</li> </ul>
<b>Encryption and Key Management</b>	<ul style="list-style-type: none"> <li>• 3DES-112 with DUKPT key management</li> <li>• AES-128 with Fixed or DUKPT key management</li> <li>• AES-256 with Fixed key management</li> </ul>

<b>Bluetooth</b>	Bluetooth 2.0 Class 2 Distance - Up to 10m Serial Port Profile (SPP) External Serial Port (option)
<b>Indicators</b>	<b>Visual:</b> <ul style="list-style-type: none"> <li>• 2 LEDs for battery and device status</li> <li>• 4 LEDs for contactless payment transactions</li> </ul>
	<b>Audio:</b> <ul style="list-style-type: none"> <li>• Electromagnetic Buzzer</li> </ul>
<b>CERTIFICATIONS</b>	
<b>General</b>	CE, FCC, Apple MFi
<b>Payment</b>	PCI PTS 3.x SRED compliant ( <i>optional</i> )
<b>ENVIRONMENT</b>	
<b>Operating Environment</b>	<b>Temperature:</b> 0°C to +40°C (32°F - 104°F)
	<b>Humidity:</b> 5 to 90% RH
<b>Storage Environment</b>	<b>Temperature:</b> -10°C to +50°C (14°F - 122°F)
	<b>Humidity:</b> 5 to 90% RH

## **CLEANING**

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To clean the unit, use a clean cloth slightly dampened with water and a drop or two of mild soap. For stubborn stains, use alcohol or an alcohol-based cleaner.

### **CAUTION:**

-  Never use thinner, trichloroethylene, or ketone-based solvents as they can degrade plastic or rubber parts. DO NOT spray cleaners or other solutions directly onto the keypad or display.
-  DO NOT attempt to clean the card readers. Doing so may void the warranty. Please contact your Infinite Peripherals representative or certified service center to service the Infinea Tab M device.

## **WARRANTY**

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Infinite Peripherals (IPC) does not warrant, and is not responsible for, any damage to the Infinea Tab M or the assembled iOS product as a result of liquid or solid particle intrusion into the Infinea Tab M, or damaged caused by dropping the Infinea Tab M with the assembled iOS product. If a material or workmanship defect arises with regard to any IPC product, and a valid claim is received within the Warranty Period, IPC (at IPC's sole discretion) will:

- (1) repair the Infinea Tab M using new or refurbished parts, or
- (2) replace the Infinea Tab M product with a new or refurbished Infinea Tab M.

For purposes of this limited warranty, "refurbished means a product or part that has been substantially returned to its original specifications. In the event of a defect, these are your exclusive remedies.

## **DISCLAIMER**

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**NO WARRANTY.** This technical documentation is provided AS-IS. Further, the documentation does not represent a commitment on the part of. Infinite Peripherals, Inc. does not warrant that it is accurate, complete or error free. Any use of the technical documentation is at the risk of the user. Infinite Peripherals, Inc. reserves the right to make changes in specifications and other information contained in this document without prior notice, and the reader should in all cases consult Infinite Peripherals, Inc. to determine whether any such changes have been made. Infinite Peripherals, Inc. shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from the furnishing, performance, or use of this material. Infinite Peripherals, Inc. does not assume any product liability arising out of or in connection with the application or use of any product or application described herein.

## ***SYMBOLS FOR USE***

<b>Symbol</b>	<b>Definition</b>
	Consult Instructions for Use
	Manufacturer
	Manufacture Date
	Caution
	Serial Number
	Part Number
	Waste Electrical and Electric Equipment
	<b>Mark of conformity to European Union Directives:</b> 2006/95/EC - Electrical Equipment designed for use within certain limits.  2004/108/EC - Electromagnetic compatibility.
	Complies with part 15 of the FCC rules.

## **FEDERAL COMMUNICATIONS COMMISSION**

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### **Federal Communications Commission (FCC) Statement**

#### **15.21**

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

#### **15.105(b)**

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.

#### **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.

### **FCC RF Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.