



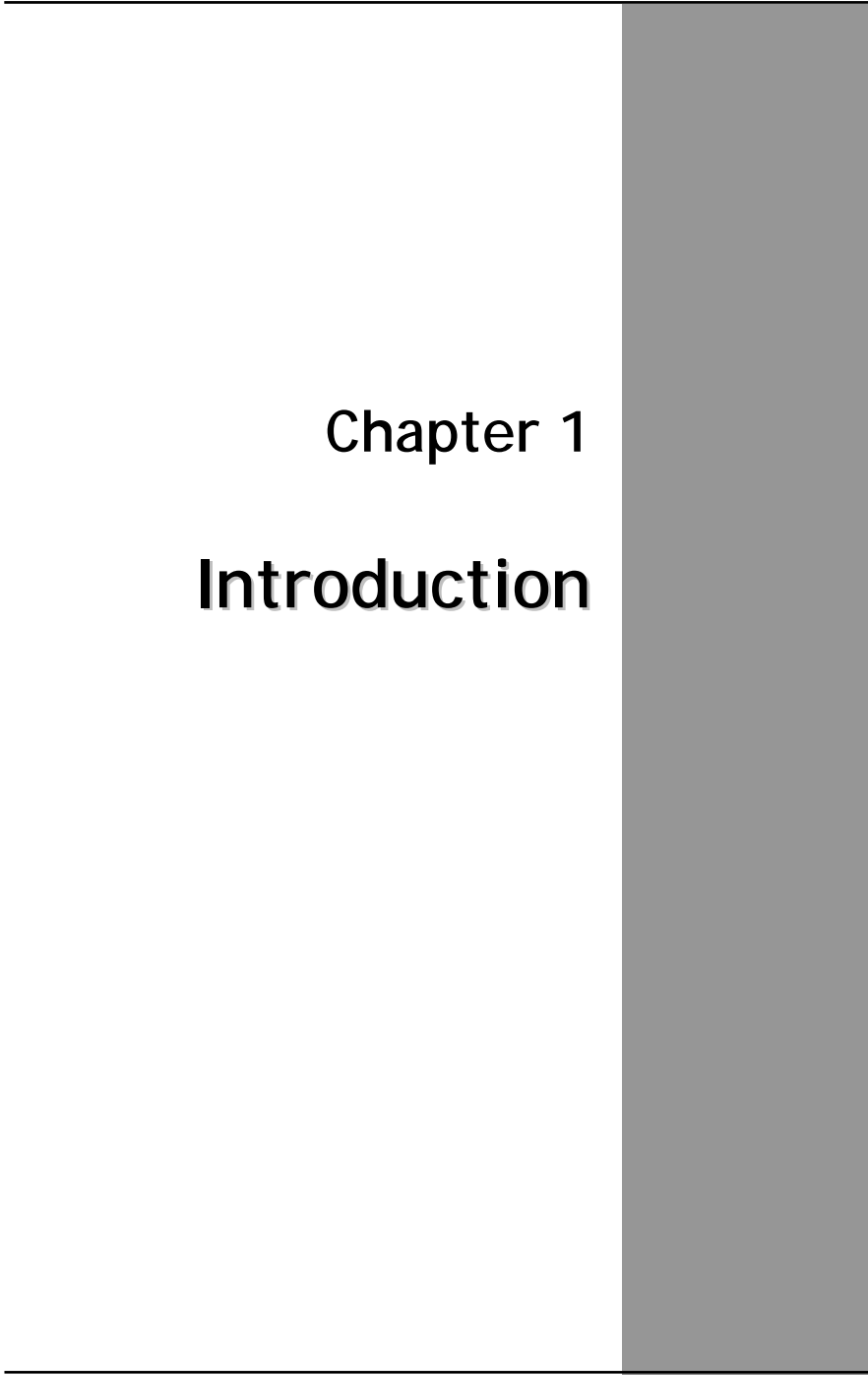
T10L MCA

User's Manual

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Chapter 1

Introduction



Getting Started

Congratulations on your purchase of a MCA. The mobile clinical assistant (MCA) is a category of mobile computing platform developed by Intel® to be a new usage model that is customized for healthcare-specific use at the point of care, supporting the workflow of nurses and clinicians. This **mobile clinical assistant (MCA)** integrates technology from **Intel® Health**.

With your MCA you will be able to organize and access important clinical information anywhere, anytime. In addition, you will be able to use the biometric fingerprint reader or authenticate your badge with the RFID reader.

This Manual contains all the information you need to set up and use your MCA. It describes all the features of the MCA in an easy-to-read yet thorough manner.



The Intel® Health brand signals the company's specialization in healthcare and commitment to the healthcare industry while drawing on Intel's rich heritage as a technology innovator. Intel is a trusted name associated with innovation, reliability, quality, and speed — attributes that resonate with key decision makers in the healthcare sector.

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Inventory

This MCA is designed for years of productive and pleasurable computing. Use this section to keep details of your purchase. This information will be required should you need to make repairs to your MCA during the warranty period. Update this section when you add new options.

DATE OF PURCHASE: _____

PLACE OF PURCHASE: _____

DEALER'S NAME: _____

DEALER'S ADDRESS: _____

TELEPHONE: _____

E-MAIL ADDRESS/WWW: _____

CONTACT PERSON: _____

MODEL NUMBER: _____

SERIAL NUMBER: _____

Safety and Maintenance

You can use your MCA under a wide range of environmental conditions. However, to ensure long use and continued high performance, consider the following factors when setting up your MCA:

- Follow all warnings and instructions noted in this documentation and in the Windows Help program.
- The first time you use your MCA, we recommend that you carefully read the Making Connections section of this manual and initialize the battery to ensure optimum battery performance.
- Unplug the MCA from the power outlet before cleaning. Use a damp cloth for cleaning. Do not use aerosols, solvents, or strong detergents.
- Slots and openings in the system cabinet are for ventilation purposes. Do not block or cover these openings or the system could overheat. Do not use or store the MCA near a source of heat or dust.
- On the base or rear panel of this MCA, there is a label with information on the power requirements of this system. These requirements must be followed. If you are unsure of your local power supply, consult your dealer or local Power Company.
- Do not step on or place anything on the power cord.
- If you use the MCA with an extension cord, ensure that the total ampere ratings of all the devices sharing the extension do not exceed the rating of the extension cord or the rating of the wall outlet.
- Never push foreign objects into the MCA through any of the slots or openings. Dangerous voltages are present, which could cause electric shock or fire, or damage sensitive components.

Cleaning the MCA

To clean the MCA, wipe its surface gently using a soft cotton cloth slightly dampened with alcohol or disinfecting products.

The device's outer surfaces (plastic shell, seal, touch panel, buttons, docking base connector, barcode scanner window, etc) can resist (80% or less) Alcohol, bleach, iodine and common hospital disinfectants.

Checklists

After opening the package, carefully inspect the contents. If any of the items is missing or appear damaged, contact your dealer. The shipping carton should contain the following:

STANDARD

- A MCA with a hard disk drive
- Two standard batteries
- An AC adapter with power cord
(I.T.E. AC power or Medical AC power)(Option)
- User's Manual (Installed in Hard Disk)
- Drivers (Installed in Hard Disk)

OPTIONS

The following items are normally optional, but some vendors may include them in the standard package. Some items may not be available in some countries, or some vendors may choose not to carry all the items.

- Additional battery
- 3G module
- RFID reader
- Barcode scanner
- Docking station



Caution: When purchasing any of the accessories listed above, purchase only those accessories that are approved for use with your MCA. The above accessories are proprietary items. Your system vendor can obtain these approved accessories. If you use items that are not approved for use with this MCA, you may cause your MCA to malfunction, or to emit or receive electro-magnetic radiation in excess of local regulations. For non-proprietary accessories such as PC cards or printers, ensure that the accessory functions properly in your MCA before making the purchase. Your system vendor may be able to recommend reliable brands and models.

Features

Software Included

Windows[®] 7 Professional

High performance Processors

Intel[®] Atom CPU N450 1.66GHz

Data Protection

Secure your data by embedded TPM

Display

Screen orientation & brightness adjustment

Smart Touch

Fingertip & stylus accessible, automatically timing control & palm rejection implemented

Comprehensive Network Connection

- PAN: Bluetooth 2.1
- LAN: Wireless LAN 802.11 b/g/n
- MAN: 3G module

Versatile Integration

RFID Reader, Barcode Scanner, Fingerprint Reader, Cam and Microphone Array

Unburdened Consideration

Slim, light weight, no noise (fanless), and “grip & go” ergonomic handle

Rugged Enhancement

Sustainable from the free drop (3 feet height) and severe ingress level (IP65)

Flexible Battery Supply

Long power supply up to 5hrs 20 Min

Extended Access Control

3 user programmable keys available to define

Rugged Standard

Drop Resistant:

26 drops of 36 inches to plywood over concrete with unit on
2 units to pass.

Water Sealing:

Rain chamber to operate at no less than 40 PSIG and no less than 4
in/hr. 10 min per axis, 6 axes, Unit is non-operating.

Environmental

Tablet PC & Docking Station

Operating Environment Temperature : 0 °C ~50°C

Storage Environment Temperature : -20°C ~60°C

Transportation Environment Temperature : -20°C ~75°C

Operating Humidity : 10% ~ 90%

Power Supply

- * Operating Temperature 0°C to 40°C with no deracinating
- * Storage temperature -20°C to +70°C
- * Relative humidity 10% to 90 % non-condensing
- * Cooling Convectonal - non vented case

Where to Look For Information

About Your MCA

This User's Manual describes the key elements of your MCA. New users can find a simple step-by-step orientation in the Quick Start section of this chapter.

About Windows

Windows Online Help, found on the Start menu, offers extensive Windows assistance. **Welcome to Windows** offers an online orientation for new Windows users. Find it in:

Start/Programs/Accessories/System Tools.

Quick Start

Turning on the MCA for the First Time



1. Connect the power cord to the AC/ DC adapter.
2. Connect the AC/ DC adapter to the DC power port on the right hand side of your MCA.
3. Connect the power cord to an AC outlet.
4. Press the power button to turn on the power.

AC Adaptor features:

I.T.E. AC power

Input: 100V-240V, 50Hz-60Hz

Output: 3.42A, 19V

Medical AC power

Input: 100V-240V, 47Hz-63Hz

Output: 5.5A, 18.05V

Manufacturer: FSP Technology Inc.

Model: FSP065-RAB

Type: Medical Power Supply



Note: The battery is not fully charged. Allow your battery to fully charge before using it (i.e., before disconnecting AC power). Calibrating the battery before use is also highly recommended. Refer to Chapter of *Power Management*, for further information.



Warning: The operator not to touch a part and the patient simultaneously.

Loading Windows

The following section is for installing the Windows operating system only. If you are installing a different operating system, please check with your vendor for installation details.

Your MCA will begin loading Windows once you turn on the power. Wait a few seconds for Windows setup to load. The Windows setup will prompt you for the product key number, shown to the right:



Product Key Number

Note: The product key is on a sticker adhered inside of the battery compartment of the MCA.

1. Type your name, and, if applicable, the name of your company.
2. Read the End User's License Agreement. Click **Next** to accept it.
3. Enter the product key number. You can find this on the Certificate of Authenticity on a sticker attached to the MCA. Click **Finish**.
4. The Start Wizard will prompt you to set the date, and your local time.

After the Start Wizard updates your system settings, the Welcome to Windows screen will appear. You may disable this feature by clearing the check box labeled **show this screen each time Windows starts**.

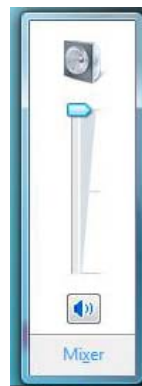
Some software comes preloaded with Windows. New users can familiarize themselves with this software by selecting Programs from the start menu, then clicking on programs to run them.

Adjusting the Volume

You can adjust the volume with hot key:

- Fn On + Navigation Key with pressing it upward: volume up
- Fn On + Navigation Key with pressing it downward: volume down

Alternatively, you can adjust the volume with the Windows volume control applet located on the taskbar.



Adjusting the Brightness

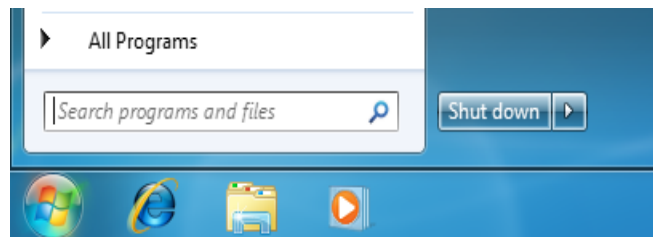
Use the following hot key combinations to adjust the LCD panel brightness:

- Fn On + Navigation Key toward left: decreases the brightness
- Fn On + Navigation Key toward right: increases the brightness

Turning off Your MCA

Turning off the MCA properly is important to maintaining your MCA.

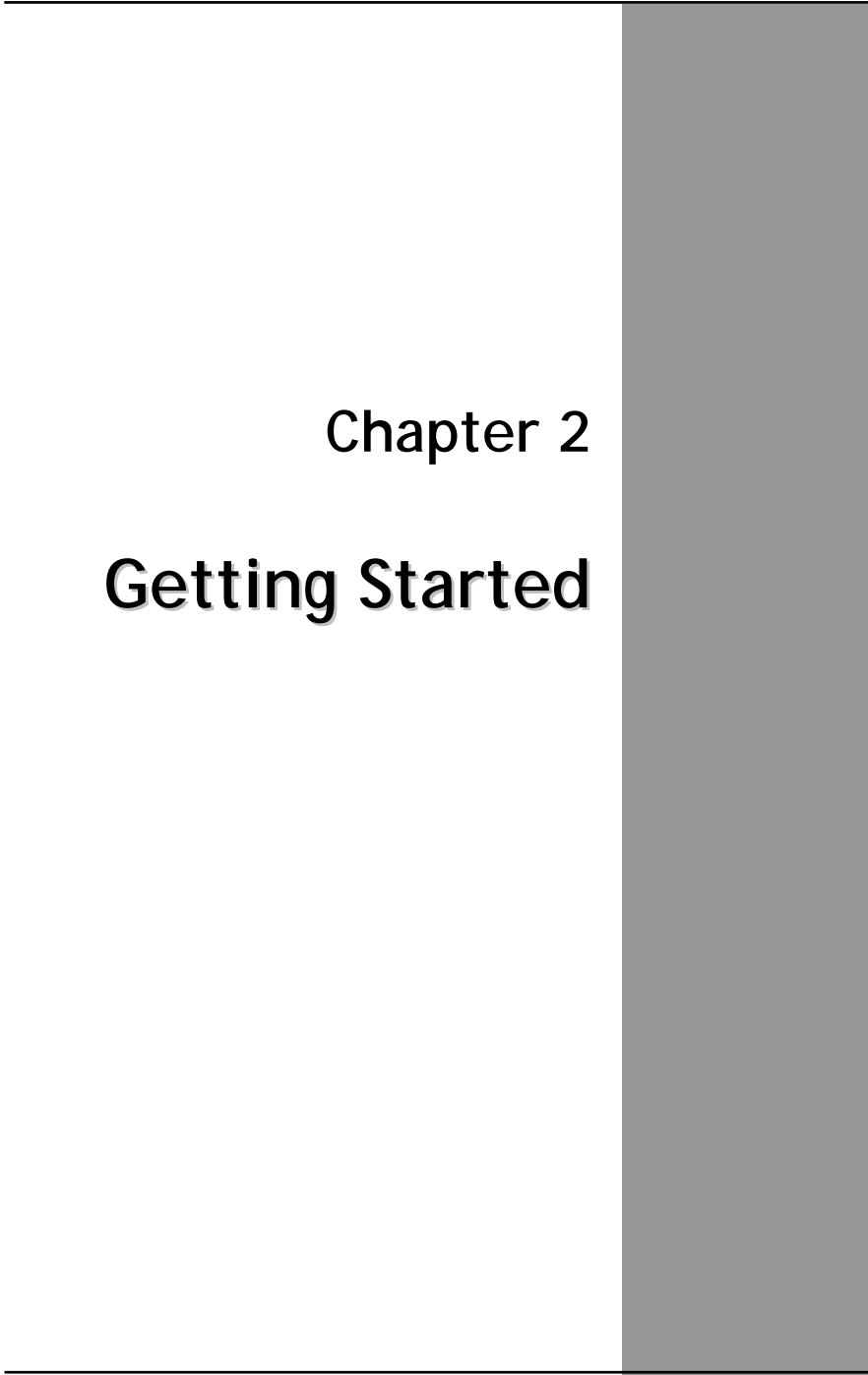
On the Start menu, click **Shut Down**.



If you are going to be away from the MCA for a short period, there are ways of conserving power without shutting down the system.

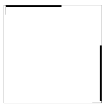


Warning: Shutting off the MCA improperly may result in data loss.



Chapter 2

Getting Started





Hardware and Software

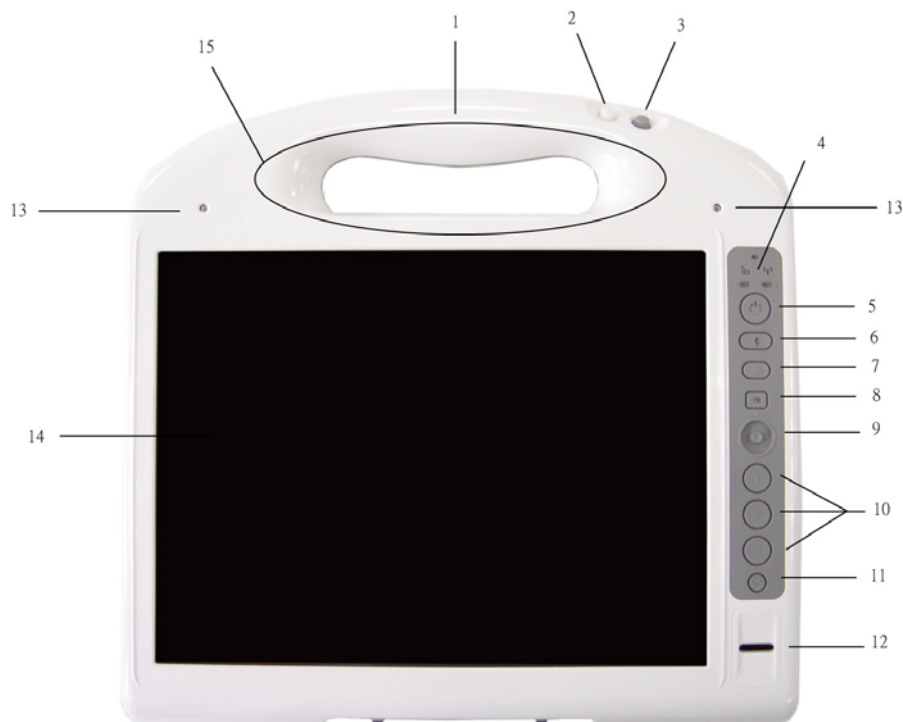
This chapter introduces the different components and controls of your MCA, including the hardware components, the software, and the audio and video systems.

Getting Started

Before you begin using your MCA, read this chapter to familiarize yourself with the main components installed in the system.

Front View

1. Tablet handle
2. RFID reader trigger
3. Barcode scanner trigger
4. Status indicator
5. Power button
6. Bluetooth On/Off button
7. Camera capture
8. Function key
9. Navigation & Enter key
10. User programmable keys
11. Security key
12. Finger print scanner
13. Internal microphone array
14. Touch Screen panel
15. Internal RFID reader antenna



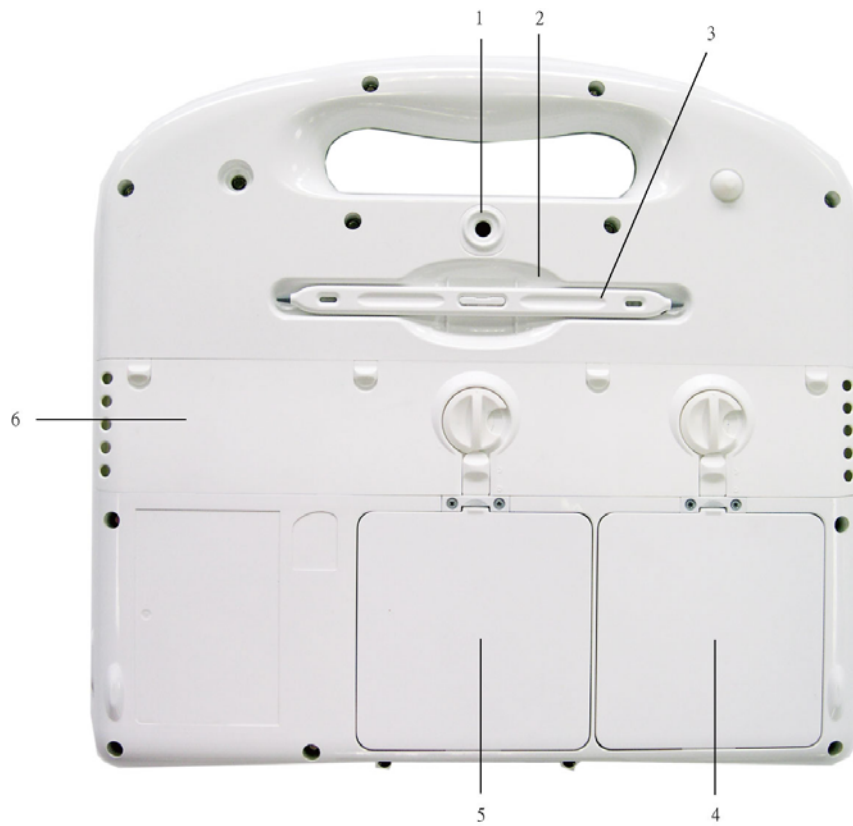
Right View

1. LCD panel
2. Barcode scanner sensor
3. DC power jack
4. Docking connector







Bottom View

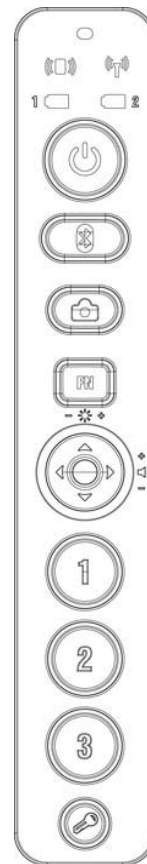
1. Camera lens
2. Touch pen holder
3. Touch pen
4. 1st battery
5. 2nd battery
6. Internal speaker



Power Indicators




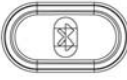


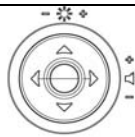

The power indicators show which power source the system is using. They also show battery status and low battery power alerts. The power indicators remain active and viewable even when the LCD panel is closed.

Icon	Light	Description
	Green	Wireless LAN is in use
	Green	RFID is in use
	Green	Battery fully charged
	Orange	Battery charging
	Red	When battery capacity is low than 10%
	Flashing Orange	When OTP (over temperature protection) of the battery is activated
	Green	Power is on and the battery is in use
	Flashing Green	Power is in suspend mode



Buttons

The eleven hot keys are unique features of your MCA. The function as follows:

Icon	Function
	Suspend/Power on-off button The Power button turns system on and goes into standby automatically. If the unit has been sitting unused for a while. Press momentarily to turn on the system or to exit from standby. Press and hold for at least 3-4 seconds to turn off the system. These settings can be changed.
	RFID reader trigger Through setting in Intel MCA SDK (White button on handle).
	Barcode scanner trigger (grey) Through setting in Intel MCA SDK (Grey button on handle).
	Bluetooth On/Off button Press to wakeup built-in Bluetooth module, Bluetooth module will be power down after certain time set by user if no more activities.
	Camera Capture Through setting in Intel MCA SDK
	Function Button Alternative definition for navigation, user programmable and security button.
	Navigation & Enter Key 5 ways button for Up/Down/Left/Right/Enter.
	Security key Similar function as pressing Ctrl+Alt+Delete on a standard keyboard.



3 user programmable keys

Press to launch specific program defined by user through Intel MCA SDK (software development kit)

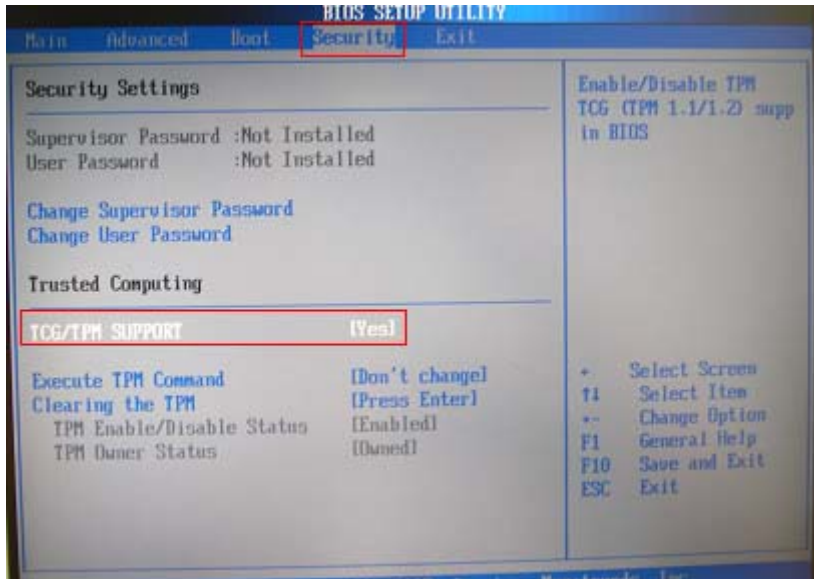
Function Keys

Press the Fn key first and then press the function key.

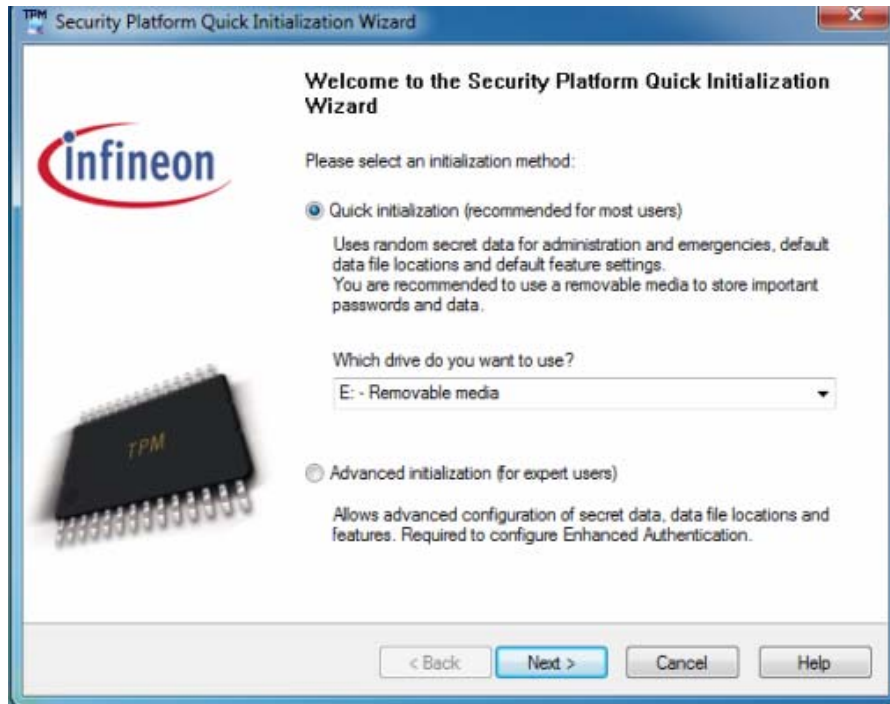
Function key	Description
Fn on + Down	Volume down
Fn on + Up	Volume up
Fn on + Left	Brightness decrease
Fn on + Right	Brightness increase
Fn on + button 2	To change display orientation 90°
Fn on + button 3	Enable/ disable the 3G module
Fn on + Enter key	To unlock the docking station manually

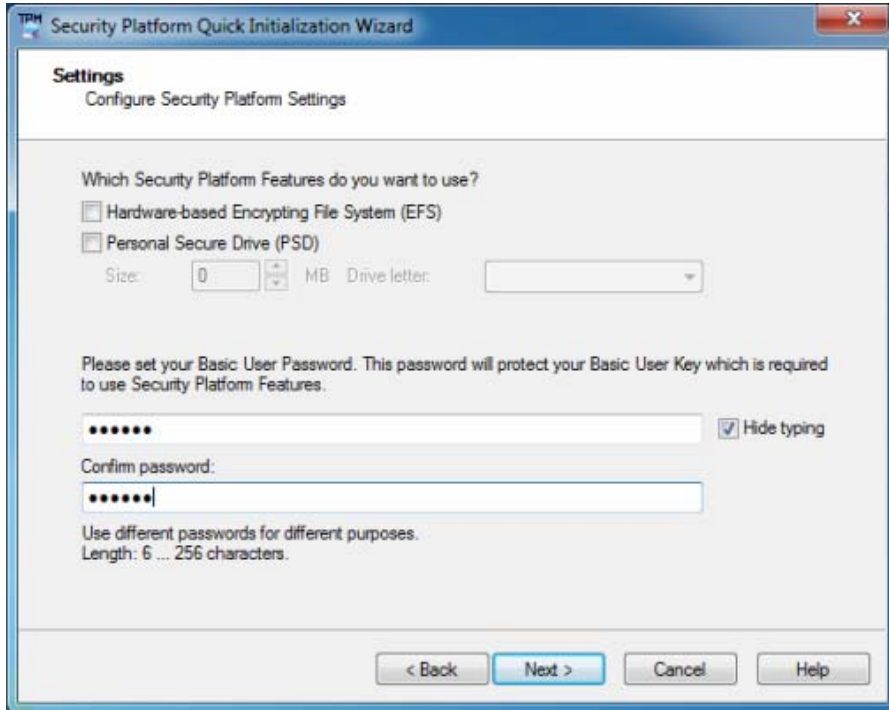
Activate TPM

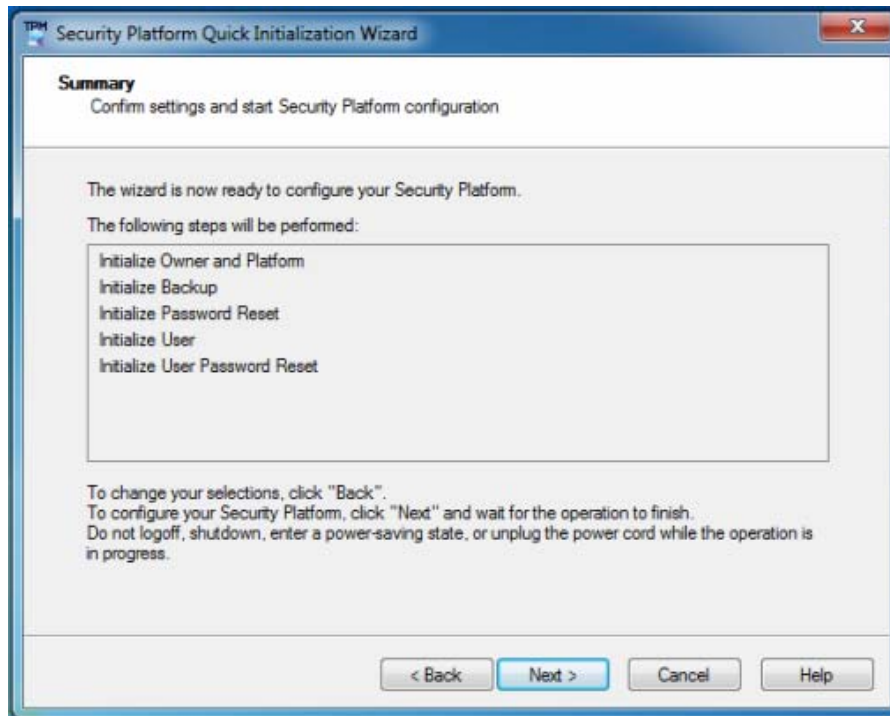
Get into BIOS setup and check TCP/TPM support

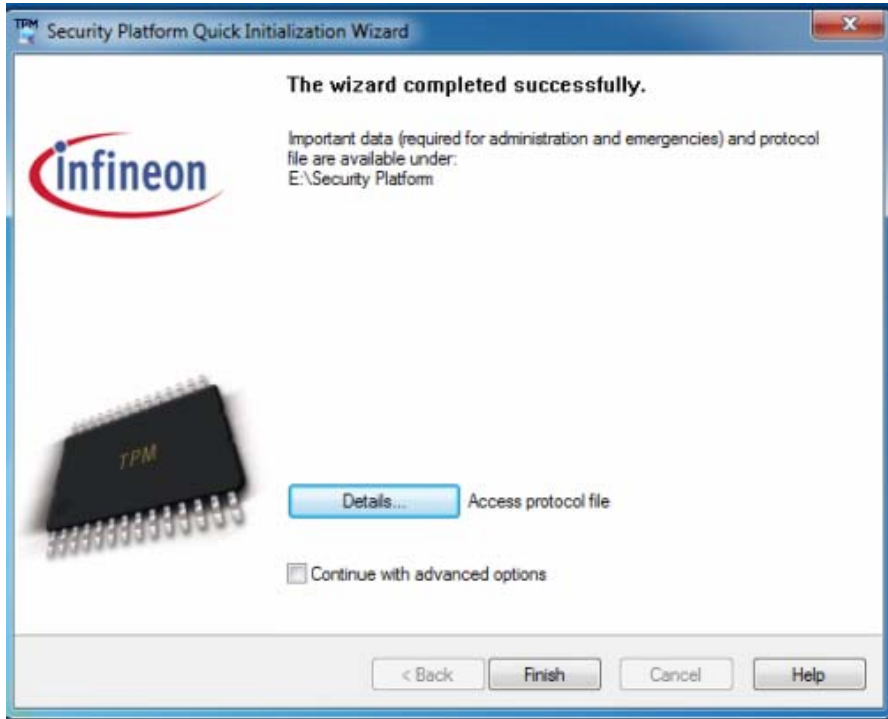


Set up TPM security function









Touch pen

You can use the touch pen to replace a mouse when using a MCA. Store the pen in the pen holder when not in use. To put the pen in the pen holder, press it until it clicks into place. To remove the pen, press down on one end, grab the other end, and remove from the holder.

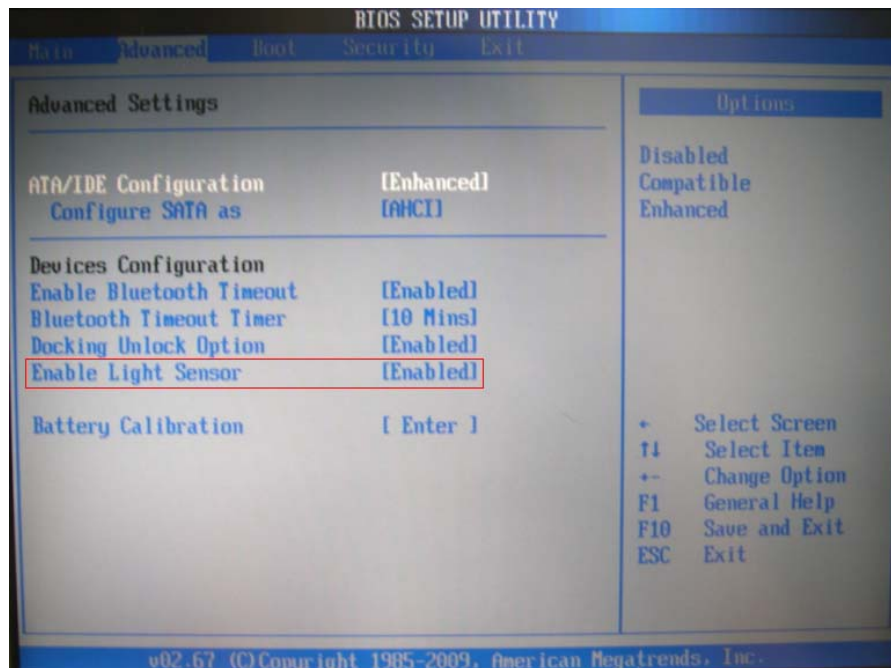


LCD Screen

- 10.4" XGA (1024x768) TFT LCD
- LED Backlight
- Luminance: 165 nit (minimum), 240 nit (typical)
- Contrast ratio: 120 (minimum), 250 (typical)

- **Light Sensor**

The built in ambient light sensor is to adjust the brightness of LCD. This will be performed automatically while in battery mode for saving power, and can be enabled/ disabled through setting in the BIOS.



Touch Screen

- Calibration software will be provided for use by users
- Calibration and precision will be retained at least 72 hours of full time use, except for below:
 1. Frequently abnormal power the unit off
 2. Reinstall the OS on the unit
 3. Expose the unit to the environment which has great temperature difference than the one performs the calibration

- **Palm rejection**

This MCA features palm rejection function which refers to the touch screen's resistance to making the cursor jump when you inadvertently touch the screen with the palm of your hand.

Fingerprint function

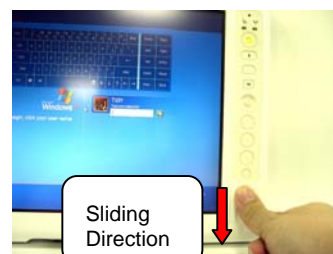
With use of fingerprint authentication, you can log on to Windows by only authenticating fingerprints that have previously been registered.




With fingerprint authentication, you can omit entering a user name and a password by just sliding your finger onto the fingerprint sensor at the time of logging in homepages or logging on Windows.

Tips:

- * Hold your finger and scan at the same angle each time.
- * Don't swipe too fast or too slow or it will make a capture unsuccessful.



User will find an icon  on Windows task bar.
Please double click on it to execute fingerprint software.



* Up to 10 sets of fingerprint data can be saved in the system. Users who use fingerprint authentication can be added and deleted.

Information about Barcode scanner

Barcode scanner with red light scanning, supports 1D/2D barcode.

1D symbologies:

EAN/UPC, RSS, Code 39, Code 128, ISBN, ISBT, Interleaved, Matrix, Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, Postal Codes

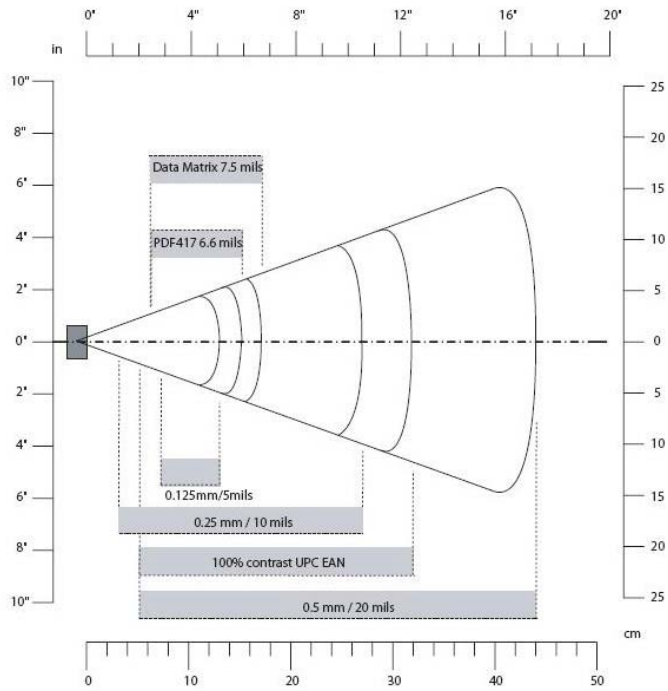
2D symbologies:

Data Matrix, PDF417, Micro PDF 417, Maxicode, QR, Aztec, EAN, UCC composite

Reading Distances

All distances are measured from the front of a non-integrated imager using **Grade A** symbologies. An exit window reduces reading distances by about 4%.

Typical Reading Distances



Typical Reading Distances: These distances are measured in an office environment (250 lux).

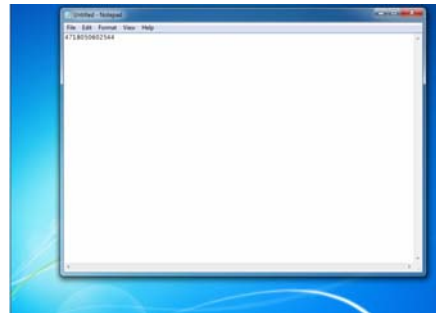
Typical Reading Distances

Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.125 mm (5 mils)	7.2 cm (2.8 in)	13.1 cm (5.1 in)
	0.20 mm (8 mils)	3.8 cm (1.5 in)	22.5 cm (8.8 in)
	0.25 mm (10 mils)	3.4 cm (1.3 in)	27 cm (10.5 in)
	0.5 mm (20 mils)	5 cm (2 in)	44 cm (17.2 in)
	1 mm (40 mils)	8 cm (3.1 in)	83 cm (32.4 in)
UPC/EAN	0.33 mm (13 mils)	5 cm (2 in)	32 cm (12.5 in)
Data Matrix	0.191 mm (7.5 mils)	6.3 cm (2.5 in)	17.3 cm (6.7 in)
	0.254 mm (10 mils)	4.8 cm (1.9 in)	22 cm (8.6 in)
	0.381 mm (15 mils)	*	29 cm (11.3 in)
PDF417	0.16 mm (6.6 mils)	6.2 cm (2.4 in)	15.4 cm (6 in)
	0.254 mm (10 mils)	4.5 cm (1.8 in)	23 cm (9 in)
	0.381 mm (15 mils)	4 cm (1.6 in)	37 cm (14.4 in)

* Minimum distance depends on symbology length and scan angle.

How to use the Barcode Scanner:

Open the WORD or ONTEPAD, move the cursor to the application , then press the gray button on the top to activate Barcode Scanner, and then data will be sent to the WORD/NOTEPAD directly.



It will be ready to read when there is a red light beam emitting from the device, and complete the reading when the light is off.



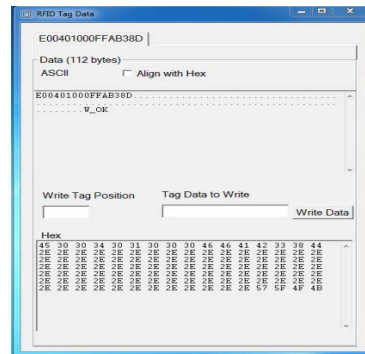
* Through software developed by ISV to define Barcode scanner function.

Information about RFID reader

The RDID reader is a compact contactless reader which supports ISO15693 (NOTE: Optional support ISO14443A & ISO 1443B with nin-healthcare standard)

How to use the RFID reader:

Click the white button on the top to activate the RFID reader. When data is Grabbed successfully, there will be a pop up message like below picture. Please notice that RFID Reader only supports ISO 15693 format tag under Intel MCA platform driver.



* Through software developed by ISV to define RFID function.

Allowable position to read the tag:

Correct position



Wrong position



The maximum reading distances for different protocol:

Protocol	Distance
ISO 15693	7cm
ISO 14443A	6cm
ISO 14443B	3cm

Information about Camera function

The camera lens is on the back of the MCA.

Features:

- 2 mega pixels resolution (1600 x 1200)
- Support Auto Focus

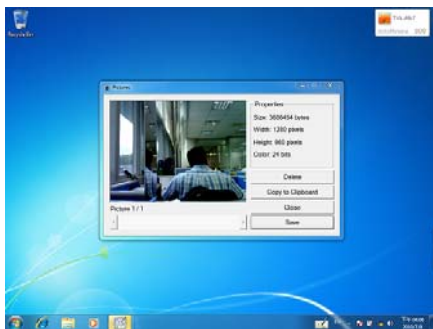


How to use the Camera:

Click on the CAMERA button, it will pop up a preview screen, then press the CAMERA button again to save the photo. The preview screen will close after 10 sec automatically.



Camera button





Communication Components

This system includes built-in Wireless LAN, Bluetooth and 3G functions:

Built-in Wireless Local Area Network

The built-in Wireless Local Area Network (WLAN) interface card can provide a quick access without using cables for the connection to the network equipments. The interface card adopts the IEEE 802.11 b/g/n protocol and uses the 2.4 GHz ISM electric wave frequency band as the transmission interface to set up the communications between the host computer and other computers.

The way of processing communications through the WLAN interface card is the same as that through Ethernet interface card. The “Configuration Tool” is a Window application program. If users have a computer equipped with the WLAN interface card, then users can use it to set up the interface card and show the current configuration and status.

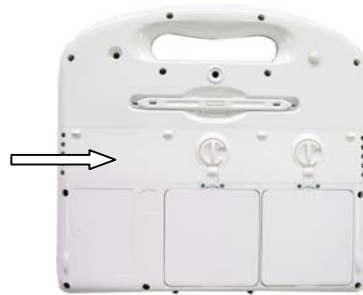
Note: Contact your distributor for the information of upgrading the wireless local area network.

Information about 3G function

Note: The system does not support 3G Voice features.

The system provides 3G function (optional), please remove the SIM card cover. Then insert 3G SIM card into the slot.

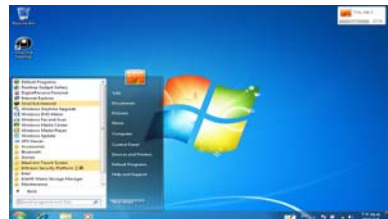
Attention: WLAN function will be auto turn-off when 3G function is on.



Please click on [OneClick Internet] program shown on the Start menu to turn on 3G function.




Please follow OneClick Internet Settings to create a profile first.



Please follow One Click [Settings] to create a profile first.


After all settings are completed, click Connect to access Internet.





User will find  on Desktop.

Information about Bluetooth function

A Bluetooth wireless technology is the ability to simultaneously handle both data and voice transmissions. This enables users to enjoy a variety of solutions such as hands-free headset for voice calls, printing and fax capabilities, and synchronizing PDA, laptop, and mobile phone applications.

Please press  hot key to turn on Bluetooth function.

User could check Bluetooth connection status from indicator on Windows

task bar.  : Bluetooth disconnection  : Bluetooth connection

Double click Bluetooth indicator or on Windows task bar.



Chapter 3

**Making
Connections**



Making Connections

Right Side Connectors




1. DC-in Jack

Connect the power plug of the AC adapter to this jack.


2. Docking Station connector

The Connector is reserved for specific purpose which is used to connect to its docking station.



Chapter 4

**Power
Management**



Power Management

Checking the Battery Level

You can check the remaining battery power in the Windows® battery status indicator located at the lower right-hand corner of the task tray. The Battery Status icon only appears in the task tray while the unit is running on the battery power but not while the unit is running off an external power source through the AC adaptor.



Battery Power Indicator



Warning: When battery power is low, the battery indicator will flash red, and the alarm will display a warning on your screen. Take immediate action, such as saving files or connecting to the AC adaptor, or data may be lost.

Battery Charging

When you use the AC adapter to connect your MCA to a power outlet, the internal battery will automatically begin to recharge (get charged first with battery 1, then goes to battery 2 when battery 1 is fully charged, and the MCA is powered by the AC adaptor.) While the battery is charging, the Battery Charge icon on the Indicator panel will be active after 6~12 seconds. When the battery is fully charged, the Battery Charge icon will turn off.

If your MCA is system off, a fully discharged battery will take about 2 hours to recharge. If your MCA is turned on and is not in suspend mode, it will take about 2~3 hours to recharge the battery. Refer to the following table:

	Charging
System On (Under Screen Saver Mode)	2~3 hours
System Off (suspend to RAM)	~2 hours

To ensure the battery be charged to its Max. capacity, we suggest you execute the following steps to refresh battery.

1. Fully charged the battery
2. Enter the BIOS set up menu and stay the unit untouched. Then, the unit can fully discharge the battery to lowest level.
3. Fully discharge the unit to 100%. Then the battery learning is done.



Note: The battery only can be charged in the condition of room temp. 0-30 degree C. Other than this range, the battery may not be fully charged. One fully charged Li-Ion battery can run the MCA for approximately 2.25 hours.

When to Replace the Battery

Over time, the battery's capacity gradually decreases. We recommend that you replace your battery when you notice that it begins to store significantly less charge.

Changing the Battery

Change the main battery pack as follows:

1. Turn off the MCA.
2. To replace the Battery, reposition the latch ❶ and latch ❷, then gently pull the battery out of the battery bay.
3. Make sure the replacement battery is properly orientated. Then insert the battery into the battery compartment. Check that the latch locks back into position.



Heat Considerations

The MCA processor has been specially designed to consume little power, and generates very little heat. However, working in a hot environment, or working for long periods may raise the temperature. If the temperature continues to rise, processor activity will be reduced. You may notice a slight loss of performance when this happens.



Chapter 5

**Docking Station
Connectors**



Docking Station Connectors – Front & left side



1. USB (Universal Serial Bus) Ports

The Universal Serial Bus (USB) is the latest standard for attaching input devices, scanners, and other devices to a PC.

2. Kensington Slot

Kensington slot is part of an anti-theft system used as a deterrent to prevent opportunist theft. It is used for attaching a lock-and-cable apparatus.

3. LAN RJ-45 Jack

With the built-in Ethernet LAN combo, you can make LAN connections without installing PC cards. Connection speed is 10/100 Mbps.



4. LED Indicator

Power	Green when system is active
Battery 1 & 2	Green when battery is fully charged Orange when battery is charging
LAN	Green when the LAN is connected
Lock	Green when the locking mechanism is on

Docking Station Connectors – Right side



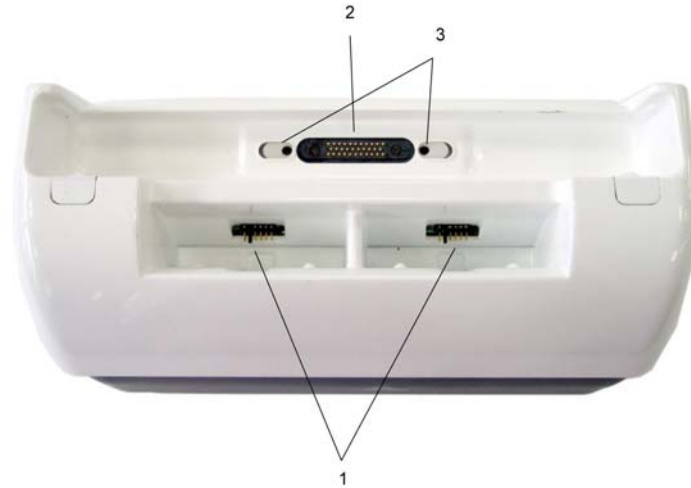
1. USB (Universal Serial Bus) Ports

The Universal Serial Bus (USB) is the latest standard for attaching monitors, input devices, scanners, and other devices to a PC.

2. Power Cord Entry

Connect the power cord from the AC outlet to this entry. There is a power adaptor embedded inside of the docking station (Input:100V-240V,47Hz-63Hz, output: 5.5A, 18.05V).

Docking Station Connectors – Top side



1. Battery charger

Provide 2 battery charging bays. The charging time may vary depending on system and environmental temperature.

2. Host slot

The host is used to connect to your MCA.

3. Locking mechanism

An electronic lock to keep the unit locked on the dock.



Mechanical Specification

Mounting:

An optional bracket (VESA standard, hole pattern 75 x 75 mm) is available when there is need to mount the docking station for different purposes.

Tilt:

To provide an optimal viewing performance while user is in different operating position, this docking station is capable of adjusting the tilt angle, and it ranges from 5° forwardly, and 25° backwardly.



Appendix A
Statements



Statements



Federal Communications Commission Statement

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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnect cables and shielded AC power cable must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

CAUTION

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

Declaration of Conformity

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

According to FCC 15.407(e), the device is intended to operate in the frequency band of 5.15GHz to 5.25GHz under all conditions of normal operation. Normal operation of this device is restricted to indoor used environment only

European Notice



CE Declaration of Conformity

For the following equipment: Tablet built-in 802.11a/b/g/n WLAN module

Is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC), Low-voltage Directive (73/23/EEC) and the Amendment Directive (93/68/EEC), the procedures given in European Council Directive 99/5/EC and 89/336/EEC.

The equipment was passed. The test was performed according to the following European standards:

- EN 300 328 V.1.4.1 (2003-04)

- EN 301 489-1 V.1.3.1 (2001-09) / EN 301 489-17 V.1.1.1 (2000-09)
- EN 301 893 V.1.2.2 (2003-06)
- EN 50371: 2002
- EN 60950: 2000

Guidance and manufacturer's declaration – electromagnetic emissions

The T10LXXXXXX is intended for use in the electromagnetic environment specified below. The customer or the user of the Equipment or System should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The T10LXXXXXX uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The T10LXXXXXX is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Guidance and manufacturer's declaration – electromagnetic immunity

The T10LXXXXXX is intended for use in the electromagnetic environment specified below. The customer or the user of the T10LXXXXXX should assure that it is used in such an environment.


Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	±1 kV line(s) to line(s) ±2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % U_T (>95 % dip in U_T) for 0,5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles <5 % U_T (>95 % dip in U_T) for 5 sec	<5 % U_T (>95 % dip in U_T) for 0,5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles <5 % U_T (>95 % dip in U_T) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the T10LXXXXXX requires continued operation during power mains interruptions, it is recommended that the T10LXXXXXX be powered from an uninterruptible power supply or a battery.

Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE UT is the a.c. mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration – electromagnetic immunity

The T10LXXXXXX is intended for use in the electromagnetic environment specified below. The customer or the T10LXXXXXX user of the should assure that it is used in such an environment.

<i>Immunity test</i>	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
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<p>Conducted RF IEC 61000-4-6</p>	<p>3 Vrms 150 kHz to 80 MHz</p>	<p>3 Vrms</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the, T10LXXXXXX including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P} \quad \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 1,2 \sqrt{P} \quad \quad 800 \text{ MHz to } 2,5 \text{ GHz}$
<p>Radiated RF IEC 61000-4-3</p>	<p>3 V/m 80 MHz to 2,5 GHz</p>	<p>3 V/m</p>	<p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
<p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p>			
<p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the T10LXXXXXX is used exceeds the applicable RF compliance level above, the T10LXXXXXX should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the T10LXXXXXX

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the T10LXXXXXX

The T10LXXXXXX is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the T10LXXXXXX can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the T10LXXXXXX as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2,5 GHz
	$d = 1,2 \sqrt{P}$	$d = 1,2 \sqrt{P}$	$d = 2,3 \sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Classification (clause 5):

- Class I equipment
- No applied part
- IP6554 (for table PC), IPX0 (for adapter and docking station)
- No AP and APG
- Continuous operation

Safety Compliance

Battery Disposal

THIS PRODUCT CONTAINS A LITHIUM-ION OR NICKEL-METAL HYDRIDE BATTERY. IT MUST BE DISPOSED OF PROPERLY. CONTACT LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION ON RECYCLING AND DISPOSAL PLANS IN YOUR AREA.

WEEE Symbol

The WEEE symbol, indicating separate collection for WEEE- Waste of electrical and electronic equipment, consists of the crossed-out wheeled bin, as shown below.



CAUTION FOR ADAPTER

THIS MCA IS FOR USE WITH MODEL NO. 0335A2065, 0335C2065, JWM180KA1800F02.

BATTERY CAUTION

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

Regulatory information / Disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

IMPORTANT NOTE (CO-LOCATION)

FCC RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR Exposure

This device has been tested for compliance with FCC RF Exposure (SAR) limits in typical flat configurations.

In order to comply with SAR limits established in the ANSI C95.1 standards, it is recommended when using a CF card that the integrated antenna is positioned more than 1.5cm from your body or nearby persons during extended periods of operation. If the antenna is positioned less than 1.5cm from the user, it is recommended that the user limit the exposure time.

Max. SAR Measurement (1g)

802.11b: 0.150 W/kg

802.11g: 0.132 W/kg

WLAN

"To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide

maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.”

For LPD

“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.”

W/detachable antenna

“To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.”

MANUFACTURED BY

**TWINHEAD INTERNATIONAL CORP.
10F, 550 RUEIGUANG ROAD.
NEIHU, TAIPEI, TAIWAN 11492, R.O.C.**