TETRA   COMPUTER

Rugged Mobile Solutions

designed for **HARSH** environments

T*pad*

USER'S HANDBOOK

TETRA
R U G G E D   C O M P U T E R S

LOGIC INSTRUMENT

URL: http://www.logic-instrument.com

LOGIC INSTRUMENT S.A
TEL: +33 (0) 1 34 28 61 61
FAX: +33 (0) 1 34 28 00 50
71 ROUTE DE SAINT-DENIS- BP116
95170 DEUIL LA BARRE
FRANCE
E-mail : Sales@logic-instrument.com
URL: http://www.tetra-computer.com

LOGIC INSTRUMENT (DEUTSCHLAND) GMBH
TEL: +49 (0) 89 666 287-6
FAX: +49 (0) 89 666 287-87
WALLBERGSTRASSE 5
D-82024 TAUFKIRCHEN
DEUTSHLAND
E-mail : Sales@logic-instrument.de
URL: http://www.logic-instrument.de

LOGIC INSTRUMENT USA INC.
TEL: +1 410-833-25-96
FAX: +1 410-833-29-76
BALTIMORE MARYLAND
3240 MURRAY RD
FINKSBURG, MD 21048 - USA
E-mail: Sales@logic-instrument-us.com
URL: http://www.logic-instrument-us.com

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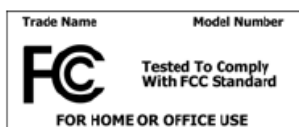
PN: _____

Edition: 3, July 2006

DECLARATION OF CONFORMITY according to FCC Part 15

Responsible Party Name: Logic Instrument Address: 71 Route de Saint-Denis, BP 116, 95170, DEUIL LA BARRE, France
Telephone: +33 1 34 28 61 61

Declares that product: Model Series: Tpad complies with Part 15 of the FCC Rules

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.

WARNING
Changes or modifications to this unit not expressly approved by the party responsible for compliance may void the user's authority to operate this equipment.

Before you use the Tpad, read these safety instructions and the operation instructions in this handbook.

Failure to observe all these instructions voids the Limited Warranty and may lead to suspension or denial of services to the offender, or legal action, or both.

Follow any special regulations governing the use of the Tpad and, if radioenabled, always switch it off in areas where radio devices are forbidden or when the radio device can cause interference or danger.

Always follow any safety laws and regulations pertaining to the use of cell phones and two-way radios, because these laws and regulations typically apply to the use of the Bluetooth Tpad.

Observe all restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, and wherever blasting operations are in progress or in any area in which restrictions on radio transmissions are imposed.

Switch off the Tpad when in an aircraft. The Tpad is not FAA-approved for use on aircraft. The effect of the use of the Tpad in aircraft is unknown.
Using the Tpad in an aircraft may affect aircraft instrumentation, communication, and performance; may disrupt the network; and may be illegal.

Radio signals from your Tpad will not affect the operation of most modern equipment, but certain electronic equipment, including automotive systems, may not be shielded against radio signals from your Tpad. Check with the manufacturer of your motor vehicle or the manufacturer's representative to determine whether using the Tpad will present any safety issues.

Avoid using the Tpad in any environment that requires your full attention, such as when driving a vehicle. If you need to use your Tpad while driving, have a passenger use it for you or find a safe location to halt your vehicle.

WARNING
Use only battery types specified in this handbook. Using any other type of battery can be dangerous and can disable the Tpad.

WARNING
Do not use any dock or any other accessory or attachment that is not manufactured or supplied by TETRA computer or an authorized Tetra accessories supplier.
Use of any accessory or attachment that is not supplied or approved for use with the Tpad by TETRA computer is not permitted because it may cause hazards.

Operate the Tpad only from the type of power source indicated on the marking label. Route power supply cords so that they are not likely to be walked on or pinched by items placed upon or against them.
Pay particular attention to cords at plugs and convenience receptacles, and at the point where cords exit from the Tpad or its docking station.
Do not overload wall outlets, extension cords, or integral convenience receptacles because this can cause fire or electric shock.

Unplug the Tpad and refer the Tpad and docking station for service to qualified service personnel if any of the following conditions occur:

• The power supply cord or plug is damaged.

• The Tpad or docking station does not operate normally when you follow the instructions in this book.

• The Tpad or docking station exhibits a distinct change in performance.

Adjust only controls for which there are instructions in this book. An improper adjustment of other controls can result in damage and may require extensive work by a qualified technician to restore the Tpad or docking station to normal operation

CAUTION
Avoid prolonged physical contact with the exposed metal surfaces on the front and back of the Tpad. While the Tpad may not feel hot to the touch, if you maintain physical contact with the Tpad for a long time, your skin may suffer low-heat injury. In addition, be careful when you remove a PC card that has been used for a long time, because the card may be hot.

Contents

Welcome

Welcome to the TETRA computer Technologies® Tpad™, the rugged, multipurpose handheld device designed, tested, and manufactured to meet the environmental and physical real-world challenges faced by today's mobile workers. The Tpad not only works the way you do, but can also take the abuses of everyday wear and tear.

Advanced technology and an innovative, rugged design provide true mobility in harsh operating conditions. Equally important is Logic Instrument's commitment to ensuring that you are treated with the same respect and honesty you offer to your customers and peers every day.

About the Tpad

The Tpad is a high-performance, handheld personal digital assistant (PDA) that runs on the Microsoft® Windows® CE. NET operating system.

Your Tpad includes the following features:

- Small and light-weight ergonomic design for true mobility
- Ruggedized for portable and mobile applications in harsh operating environments
- High-performance Intel processor
- High-resolution, daylight-readable, full-color VGA LCD display with integrated touchscreen
- Open architecture for support of multiple internal and external expansion options
- Compact Flash slot and extra features options
- Extended operating time provided by user-replaceable, high capacity lithium-ion battery pack
- Versatile docking station with optional battery charger for desktop, wall, and mobile applications
- Integrated bluetooth

Package contents

Quick check

Check to make sure your package includes the following items:

- Base Unit and Battery Pack

Base Unit

AC power cord Pack

Stylus

CF cap Screw

Compact Flash Cap

Battery Pack   AC adapter
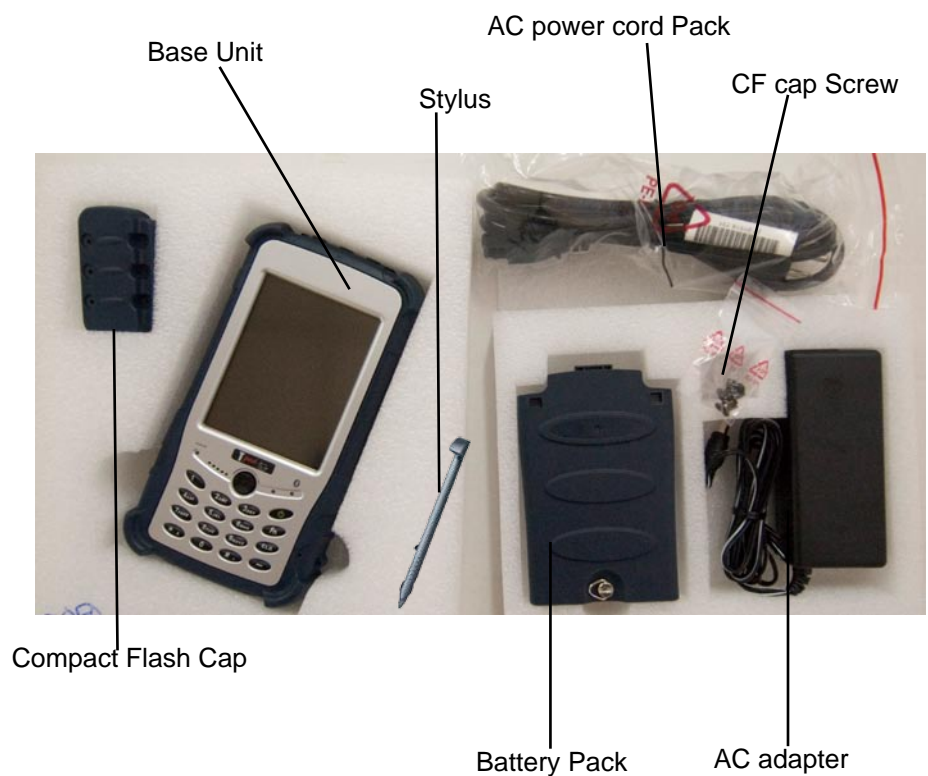
• Install the battery and then plug in the adapter to handheld device.
• Attach the AC adapter to AC outlet. The adapter LED indicates the power is ready.
Charge LED will light up till the battery is full. Charging time will be about 2 hours.
• Press the power button momentarily to turn on this device.
• Follow up the instruction on screen to finish the basic setting.
• Press power button momentarily to turn OFF

Optional accessories

• Docking station

Desk stand
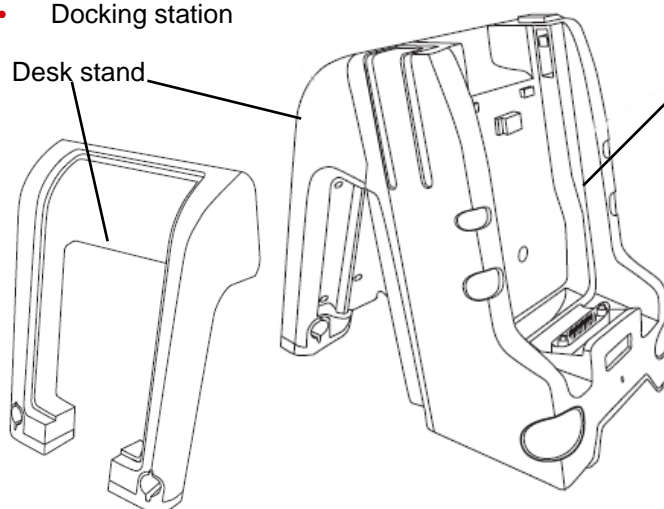
Docking cradle

Data sync cable (USB)

• Battery charger

Battery charger

- Quick Start Guide

- This handbook

Your package also includes any optional accessories you ordered.

- Power adapter

- Secure Data (SD) card

- MultiMedia (MMC) card

- Handstrap/carrying case

- Stylus

- Expansion modules

- Battery charger

- Universal Compact Flash cover

Contacting Logic Instrument

If you purchased your Tpad from an authorized TETRA computer dealer, contact the dealer for service and support.
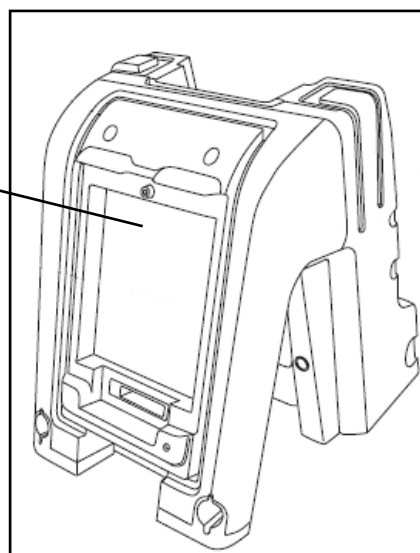
If you purchased your Tpad directly from Logic Instrument, use any of the following methods to contact Logic Instrument for service and support:

Tel +33-1-34286161
Fax +33-1-34286150
E-mail techsupport@logic-instrument.com
Web site http://www.tetracomputer.com

The serial number is on the back of the Tpad

Before you contact Logic Instrument, have the following information ready so that the customer support representative can quickly provide a solution:

Product name: Tpad
Product serial number
Purchase date
Conditions under which the problem occurred
Any error messages that were displayed
Type of device connected, if any

1 Getting Started

This chapter provides basic information about your Tpad.
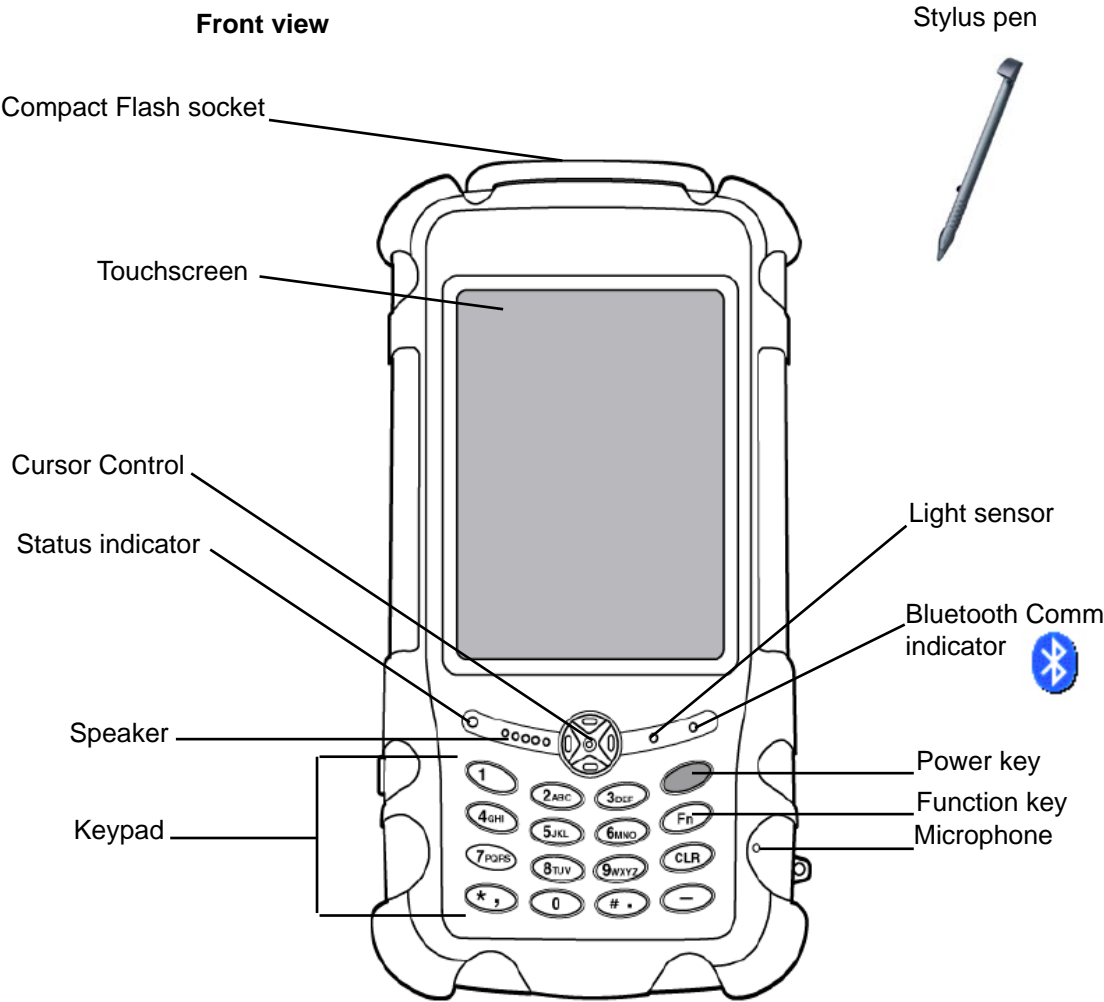
Getting to Know The T pad

For more information about each component, see Chapter 2.

This section shows the locations of some of the Tpad's important components.

Features and controls

Front view

Stylus pen

Compact Flash socket

Touchscreen

Cursor Control

Status indicator

Light sensor

Bluetooth Comm indicator

Speaker

Power key

Function key

Microphone

Keypad

Feature	Function
Compact Flash socket	Enables you to use a compact flash card.
Touchscreen	Enables you to use your finger or a stylus to enter data and control applications.
Cursor Control button	Lets you move the cursor up, down, left, and right. Also performs the functions of an Enter key.
Status indicator	Indicates system mode and charge status. (See page 16.)
Speaker	Provides mono audio output.
Keypad	Provides alphanumeric keys you press to enter data.
Photo sensor	Automatically optimizes the LCD backlight.
Comm indicator	Indicates Bluetooth® activity.
Power key	Turns the Tpad on and off.
Microphone	Enables you to input mono audio.
Stylus pen	Enables you to enter data and control applications directly on the touchscreen.

Status indicator
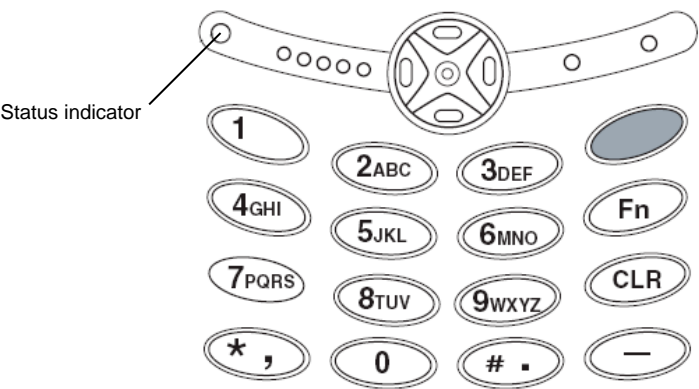
Status indicator

The following table shows the meanings of the Status indicator light

System Mode	Battery Power	External Power		Fault	
		Charging	Not Charging	Low Battery	Temperature
Run/Idle	Solid green	Flashing green	Solid green	Flashing red	Solid red
Standby	Solid orange	Flashing orange	Solid orange	Flashing red	Solid red
Suspend	Off	Off	Off	Off	Off

Back view
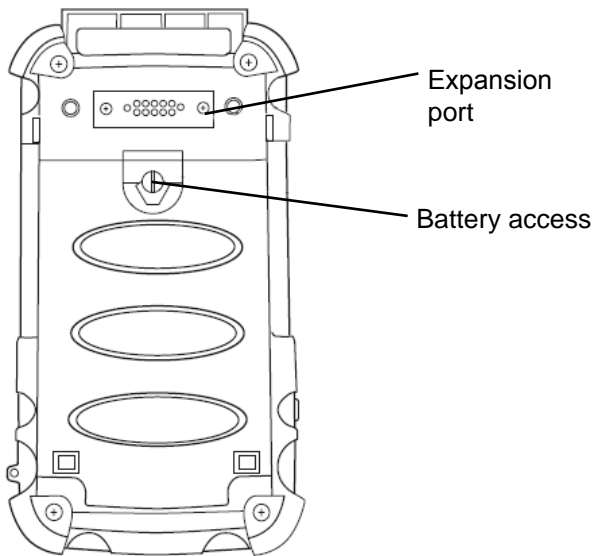
Feature	Function
Expansion port	Available for expansion module
Battery access	Provides access to the replaceable battery. turn clockwise to dismount battery module

Side view
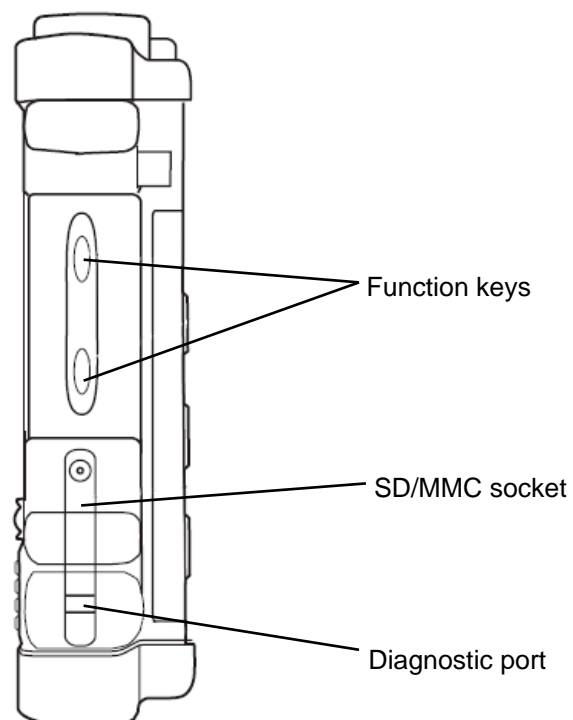
Feature	Function
Function keys	Shortcut to access pre-programed application.
Secure Data/MultiMedia Card (SD/MMC) socket	Supports memory cards and multimedia cards (16 MB to 2 GB).
Diagnostic port	For use by technicians only. 1 x UART convertible to RS232 with adapter provided by logic instrument

Operating Environment and Ruggedness

This section contains instructions to provide appropriate protection for using your Tpad.

A clean and moisture-free environment is preferred.

If it is necessary to work in a hostile environment, please make sure all ports are well protected from dust, moisture, or water.

Proper isolation from extreme hazardous exposure is recommended.
The handheld device is designed with rugged features of vibration, shock, dust, and rain/water protection.
However, it is still necessary to provide appropriate protection while exposing to harsh environments.
All connectors will decay or corrode if exposed to water or moisture.
Corrosion is accelerated if the power is ON.
Please take proper water-resistant measures for cable connections.
All port caps should be in place when no cable is attached.
Regularly maintain the computer by cleaning dust, water, etc. will help keeping it in optimal condition.

 There is no isolated compartment in SD slot. These ports must be tightly sealed while working with dust/water.

2   Using the Tpad

This chapter contains instructions for using your Tpad.

Turning on and off the Tpad
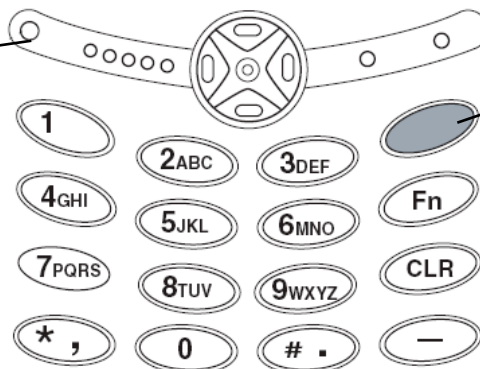
1. Make sure the Tpad is off.

When the Tpad is off, the status indicator is off
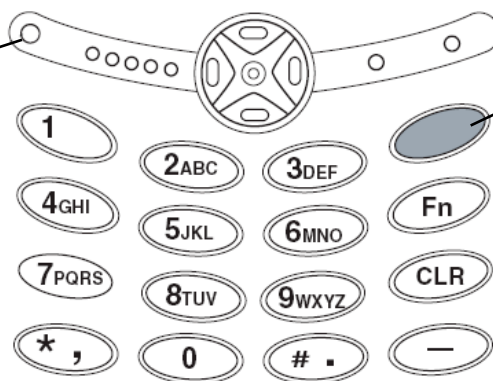
Power key

2. Make sure the battery is charged or that the Tpad is plugged in to an external power source.

3. Press the Power key to run the Tpad.

4. Press the Power key to switch to suspend mode.

When the Tpad is on Stanby mode the status indicator is orange

Power key

Using the stylus

Use the stylus supplied by Logic instrument with the Tpad since it has been designed with a non-abrasive material that neither scratches nor deteriorates the touch screen.
Use the stylus to type with the on-screen keyboard, write on the writing pad, and navigate by pointing and tapping.

Stylus compartment

• Double-tap on a folder to open it.

• To move a file to a folder, touch the file with your stylus and drag it to the folder.
• To navigate in a window, slide your Stylus/Pen on the Navigation Bar or Click the Navigation Arrows

To get the best results when using your stylus

• Do not rest your hand on the Touchscreen. The screen is sensitive to touch; pressure from your hand prevents your Display from functioning properly.

• Hold the stylus perpendicular to the touchscreen.

• Press and tap firmly when using the stylus. The screen is designed to handle the stress of tapping and dragging with the stylus.

• Keep the stylus smooth and clean.

• Realign the screen and reset the double-tap speed if the touch screen stops responding to your stylus taps. (Tap the mouse icon   on the control panel Display.)

• Never use a pen, pencil, or other object in place of your stylus. Such objects can damage your touchscreen.

Virtual Keyboard

By clicking the Keyboard icon at the bottom right of the Task Bar, the Virtual Keyboard will appear. The Virtual Keyboard may also appear automatically in data entry fields image
Select Hide Input Panel to disengage the Virtual keyboard

Standard Keyboard
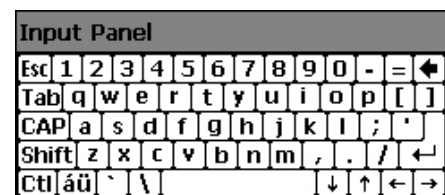
Extended Language keyboard
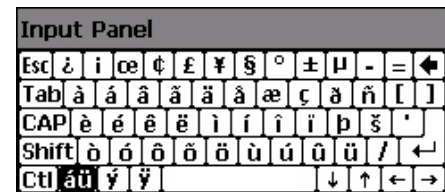
Pressing toggles between the Standard Keyboard and the Extended Language keyboard
NOTE: Press the Shift key to access additional characters.

Transcriber

Transcriber lets you take down a phone number, take notes and more, just as easily and naturally as writing on a piece of paper.
Transcriber recognizes all handwriting, be it cursive, printed or a combination of both.
To work correctly some setting should be set.
To know how Transcriber works, select the Transcriber option and click the Help button.

Start programs

Tap Start [Start] ➤ Programs ➤ desired programs

Calibrate the Touch Screen

Tap Start [Start] ➤ Settings ➤ Control Panel ➤ Stylus ➤
calibration. and tap recalibrate

Use pen to touch the center of mark " + " and repeat the action when the
mark " + " moves.
Tap the enter button to confirm when finished.

This function can also be launch by pressing Fn and 2 then click
Calibration and Recalibrate

Setting LCD brightness Touch Screen
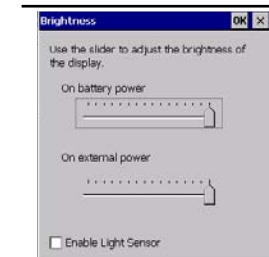
To dim / increase the brightness of the LCD backlight: Brightness

Enter brightness menu in the control panel options to adjust the brightness
level as desire.

Setting backlight timeout: Display
Enter display menu in the control panel options and select the backlight tab
to adjust the timeout period as desired.
Timeout is the idle time that the LCD backlight would turn OFF automatically.
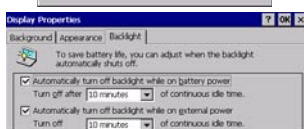
Disabling automatic backlight control
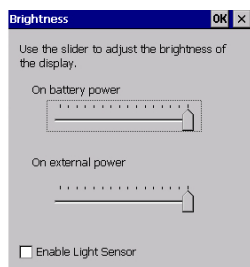
When the ambient light sensor is enabled, the Tpad automatically controls
the amount of backlight sent to the screen to provide optimum brightness for
the lighting conditions in which you are working.

To disable / enable automatic backlight control

Enter brightness menu in the control panel options to disable / enable the
backlight sensor.

Setting power

Enter Power menu in the control panel options to adjust the idle time to switch to suspend mode.
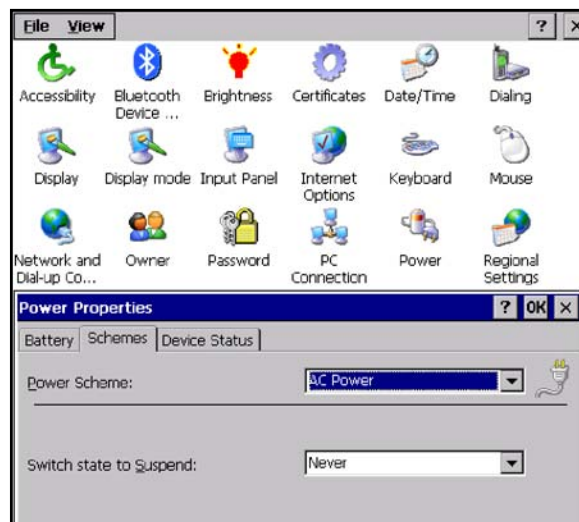
Select desired timeout configuration.

Adjust volume

Enter Volume ans Sounds menu in the control panel options to adjust the volume level as desired.
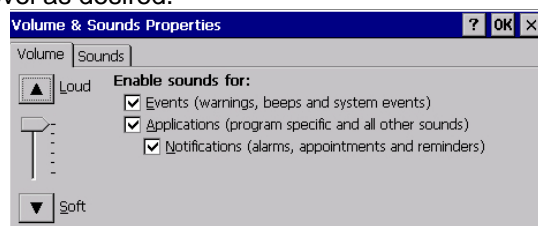
Using the Cursor Control button

Press the edge of the Cursor Control button to move the cursor:

scroll up

enter key

Cursor Contol
button

scroll left

scroll right

scroll down

Using the function keys

2 X function keys (both side)
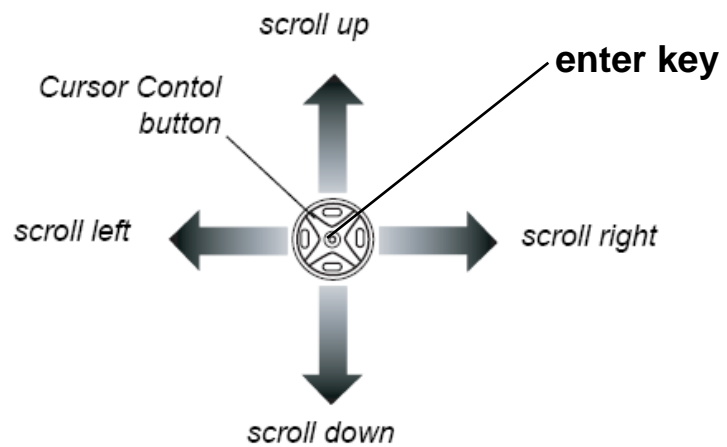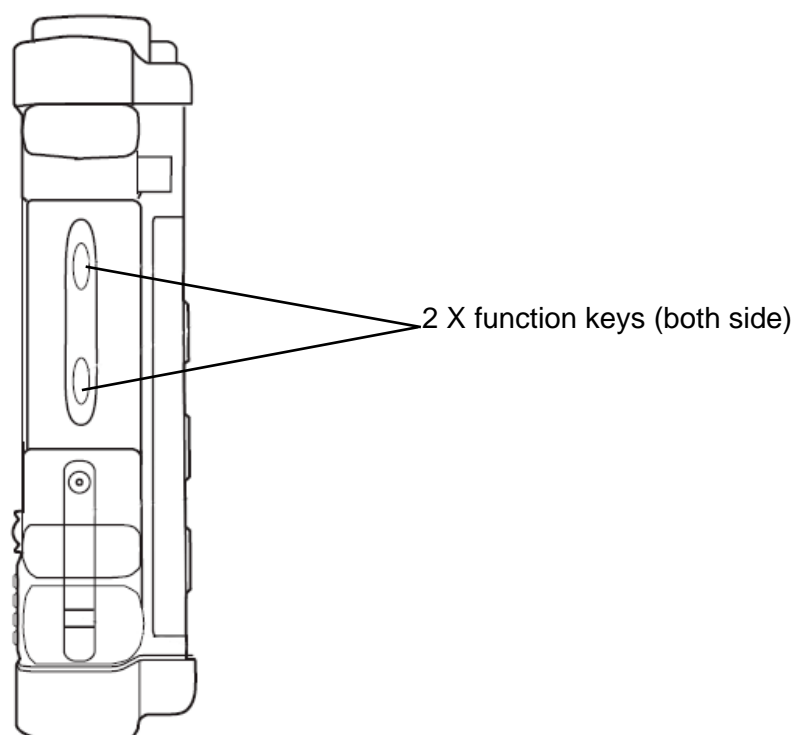
Set your own buttons functions

The four buttons functions at the side of the Tpad are user-definable.
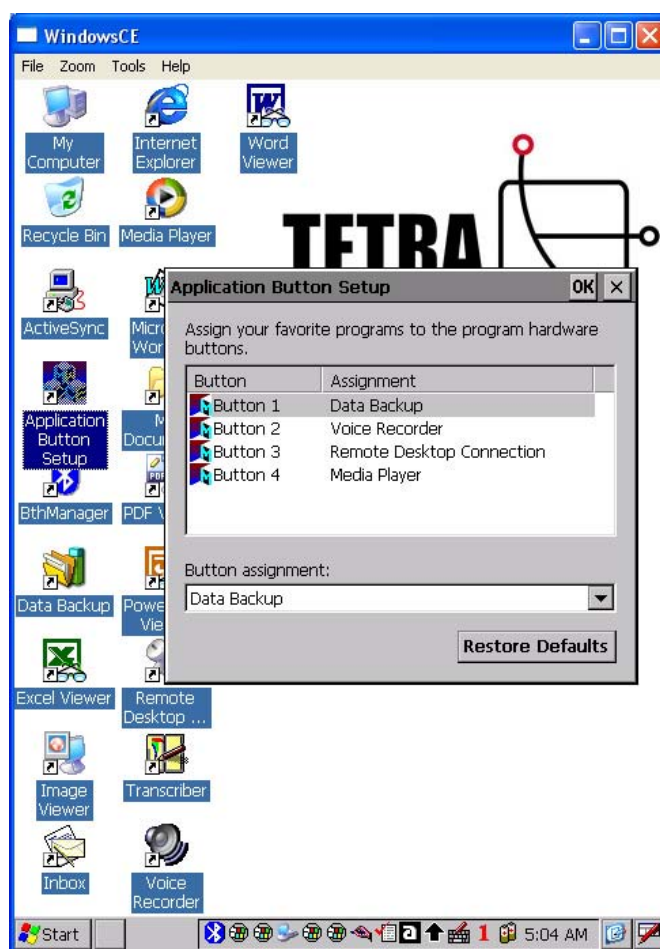
Use the application button setup on Tpad desktop
or tap **Start** ➤ programs ➤ Application button setup

➤ Define the button functions as you want from the selection list. Other buttons are not user-programmable.

Using the docking station

The TPAD docking station is a modular and multipurpose platform intended for desktop, wall or mobile applications. The docking station concept is shown in the figure below and consists of a docking cradle, battery charger, and application specific mounting adapters.

Desk stand

Docking cradle
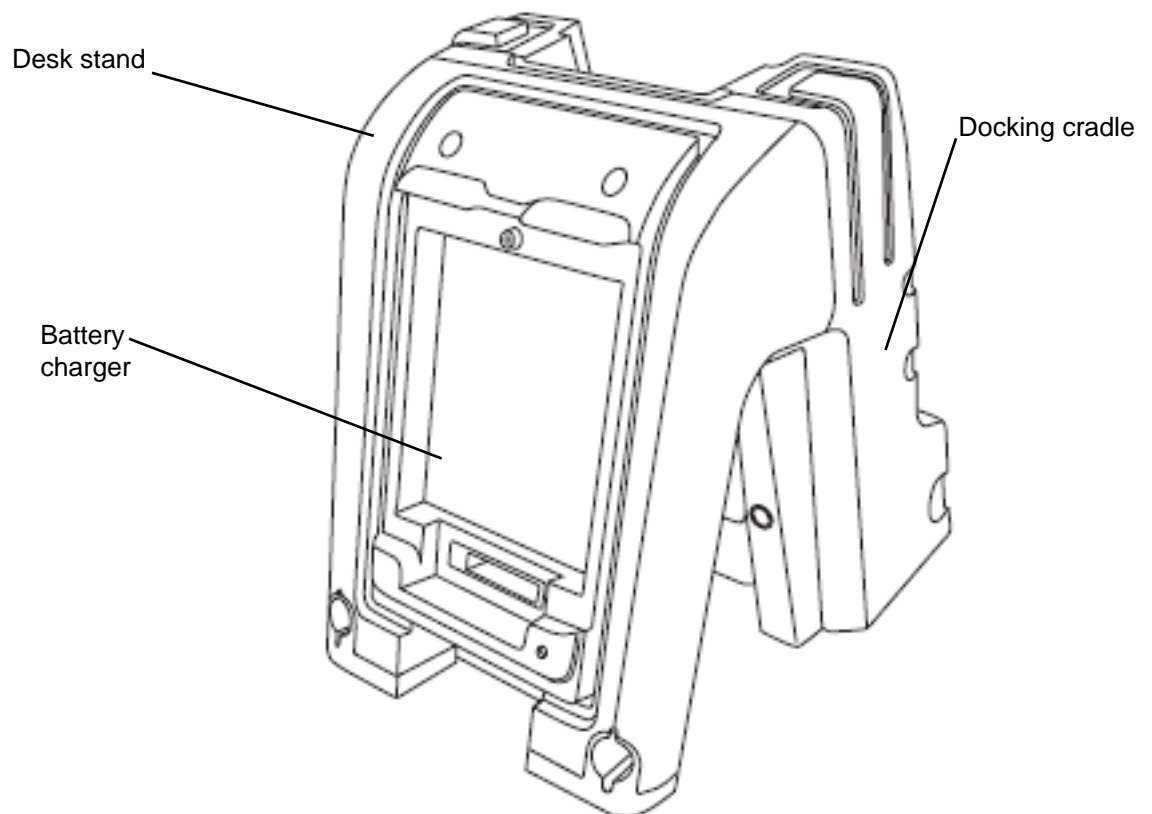
Battery charger

The docking cradle and battery charger are both stand-alone devices that may be used independently of one another with individual mounting adapters for wall or mobile applications or in conjunction with one another using a passive desktop mounting platform.

Docking the Tpad

Align the Tpad into the docking cradle connectors and firmly push the computer down and then push forward to engage the docking connector until the locking pins click.
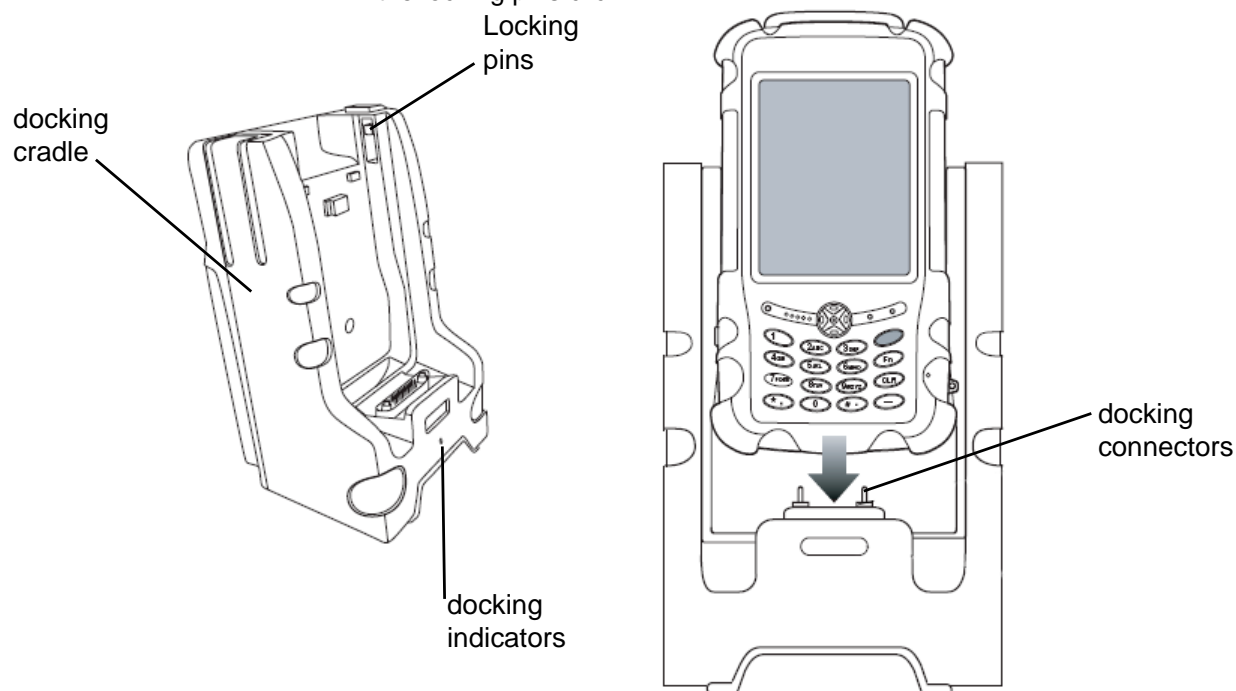
Solid green = power + Tpad docked
Flashing green = Power + Tpad not docked

Align the computer with cradle docking connector

Undocking the Tpad

Push the Eject button; then pull the Tpad up and away from the cradle.

Eject Button

Docking cradle

docking indicators
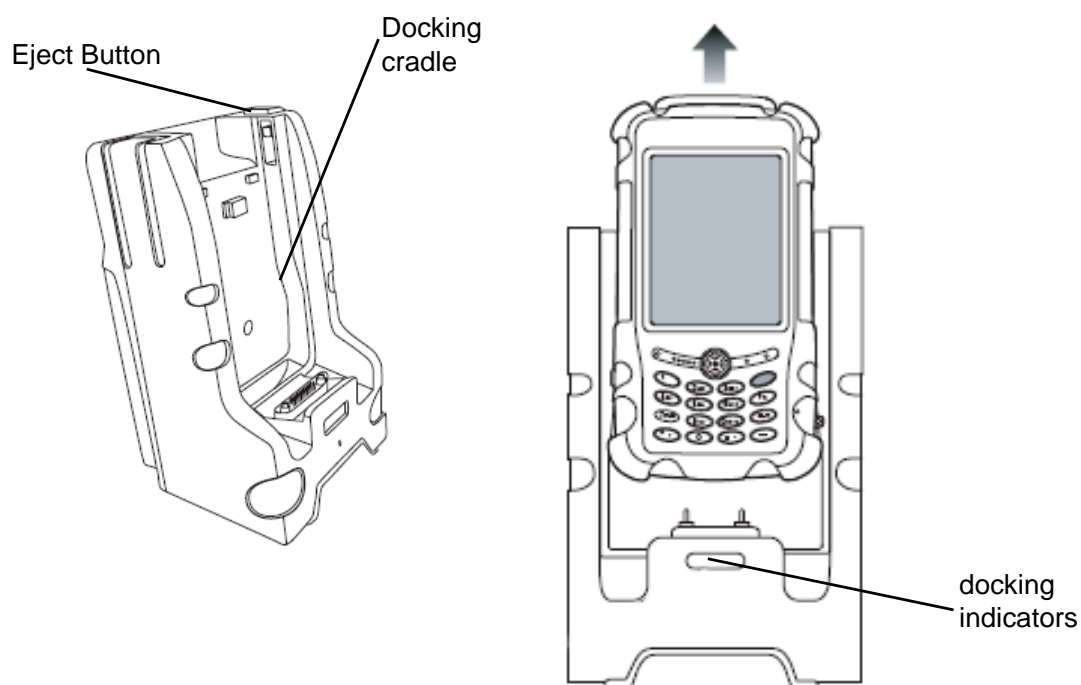
Mounting the docking cradle on the wall

1. Mark the location for one of the keyhole slots on the wall; then measure the distance to the other keyhole and mark that location.

keyhole slots
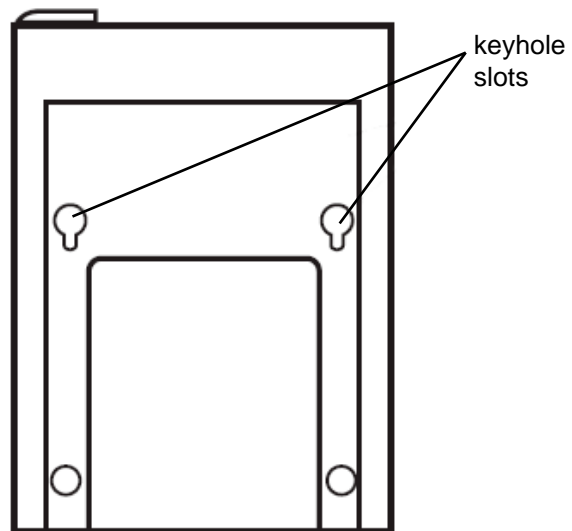
2. Screw the mounting screws into the wall at the locations you marked.
3. Mount the docking cradle on the two screws.

Using the desk stand

The desk stand attaches to the back of the docking cradle provides a stable platform for the Tpad.

Snap the desk stand to the back of the docking cradle as shown in the illustration.

Desk stand connected
to the docking cradle

Desk stand   Docking cradle
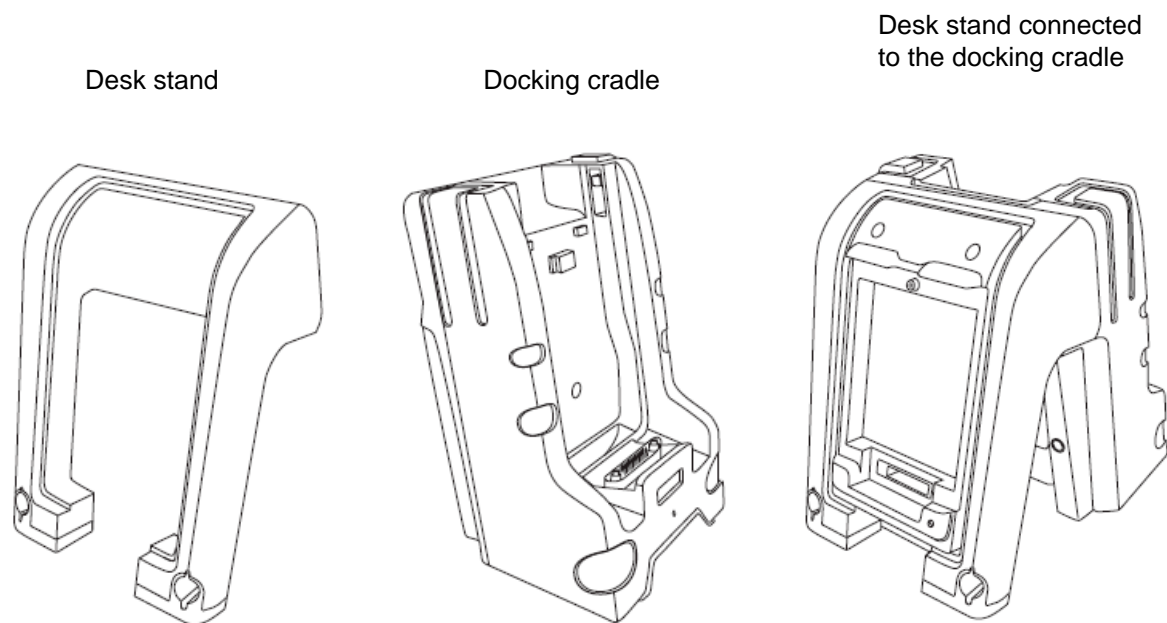
Connecting devices

Refer to the following subsections for information about connecting external devices to your Tpad.

Docking Cradle expansion

Connecting
external devices
1

Monitor
switch Right position
for external display

2   3

1.   USB client
2.   SUB -D 25 extra features via special cable (not included)
          - external CRT, Audio out -
3.   Power port
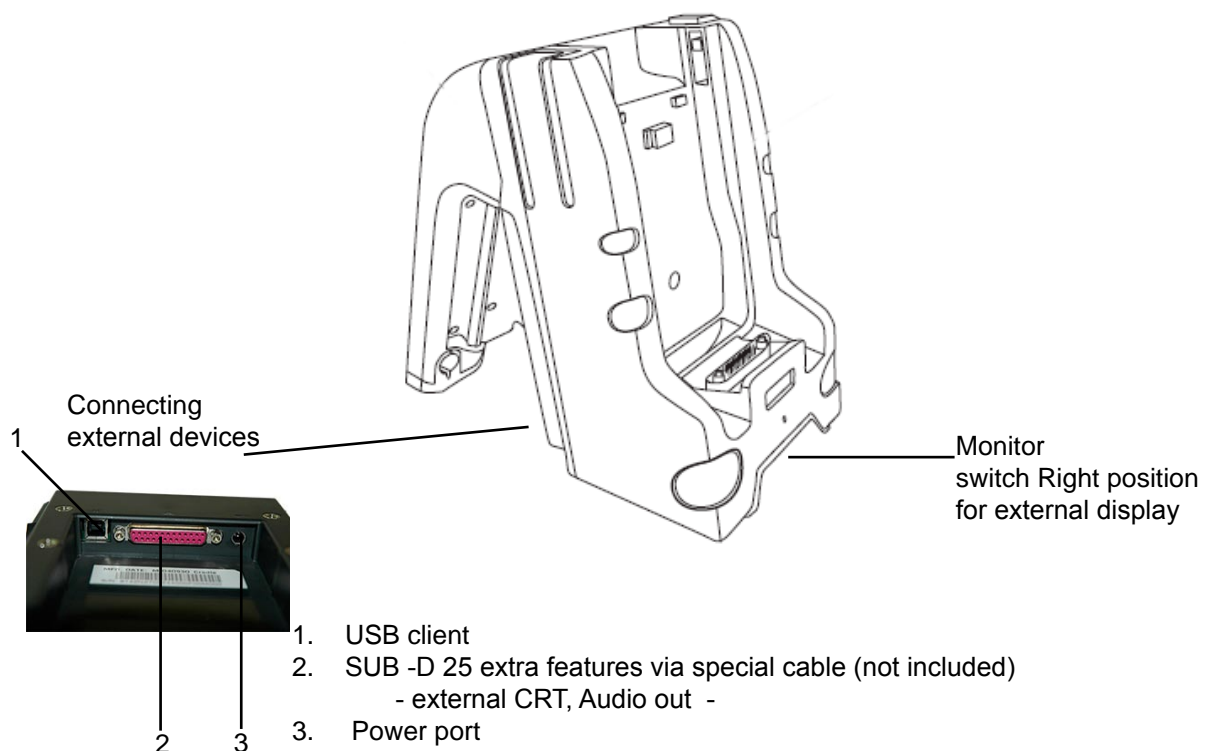
Activating the monitor or projection panel

After you connect the external monitor to the Video port on the PRM (cable
not included) slide the External Monitor switch to the right position as shown
in the illustration above.
Contact your local help desk or TETRA computer reseller.

Note

When activating external display switch (left or right) the handheld device
reset automatically.
make sure to back up your data.

ActiveSync
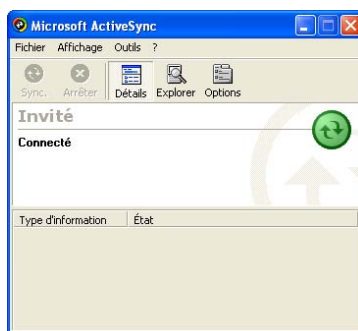
You may transmit/receive data between this handheld computer and other computers via ActiveSync.
Install Microsoft ActiveSync 3.8 or above on host computer.

Connect handheld computer and host computer with the USB cable. Follow the prompt to execute data sync. Perform Copy, Paste, Cut, Delete, etc. same as PC.

Make sure you have administrative rights on the desktop PC before installing or re-installing ActiveSync. Do not connect the Tpad to the desktop PC until after you have completed installing Microsoft ActiveSync.

The latest version of Microsoft ActiveSync can be obtained from the following website - http://www.microsoft.com/windowsmobile/default.mspx

Microsoft ActiveSync version 3.8 or higher is required to connect to the computer.

Remote display control

With the Remote Display Control application, you can display actions, including user input, remotely on the display of a desktop computer.

Remote Display Control uses TCP/IP, and it can work with ActiveSync® connections via USB client.
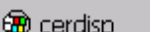
download remote display control : http://www.microsoft.com/technet/ prodtechnol/wce/downloads/ppctoys.mspx

The software is installed automatically C:\Program Files\Remote Display Control\cerhost.exe. We recommend creating a shortcut on the desktop.

- Software Utilisation:
You could find a user guide under C:\Program Files\Remote Display Control\ readme.txt.
Three steps are necessary:
- Connect the peripheral (on) to the PC. Please check that ActiveSync detect the connexion.
- On the PC launch Remote Display Control (cerhost.exe)
- On the TPad execute \Windows\cerdisp.exe, click on Connect, use default parameter (PPP_PEER), and click Ok.

All data displayed on the TPad are immediately visible on the PC monitor. We could zoom this window.
Consequently, if a retro projector is connected to the PC; whole assistance could see the displayed data on the TPad.
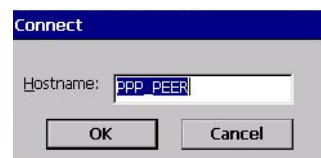
Backup Data

There are two types memory on the computer: Temporary memory RAM (Random Access Memory) and permanent memory ROM (Read Only Memory).

Most data of ongoing program are stored in RAM. It would stay intact when power turns OFF. (Actually pressing power button OFF/ON is "suspend/resume" only.

Part of the PDA is still running, power supply to memory is always ON.) However, data or program in RAM will be lost when hardware reset. And if primary battery been removed for too long time (for example, swap battery for > 1 hours), there are risks to lose RAM data as back up battery may run exhausted.
Long time storage will drain primary and backup battery to exhaust thus unable to keep memory data.

To avoid data loss you may move data into ROM or memory card as follows:

1. Select Data Backup program on the desktop or tap start / programs / data backup.

2. select the way you want to backup data / inbox / file / folders

3. then select Scheduled.... tab to automatically backup data and tick the box enable Scheduled Backup

☑ Enable scheduled backup
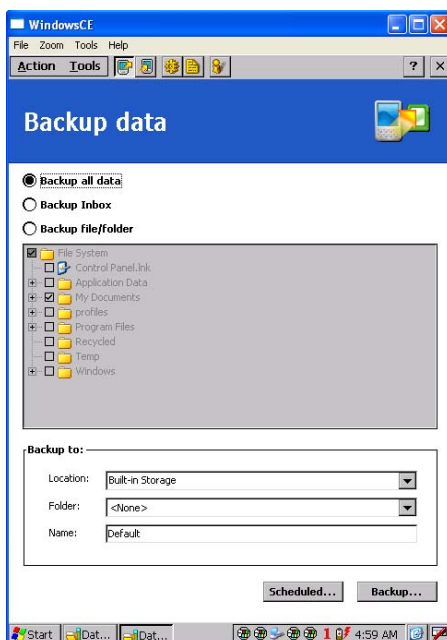
you can protect your settings with password encryption
1. select the TOOLS tabs in the data backup main page
2. select options
3. Tick the box Encrypt backup file

Options OK ×

☑ Compress backup file
☐ Encrypt backup file
☐ Auto close all other program(s) before backup or restore
☐ CRC check before restore data
☑ Check whether the AC adapter is connected before backup or restore
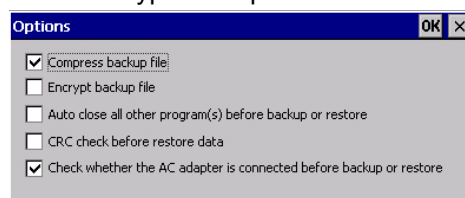
4. Select Backup... tab `Scheduled...` `Backup...` then choose a password and confirm

Checking password OK ×

☑ Encrypt backup file
Password: [   ]
Confirm: [   ]

Restore Data

To restore Data follow those step :

1. select the Action tab and the select Restore

Action **Tools**
✓ Backup
Restore
─────
About...
─────
Exit

2. select desired files / folders you want to restore and enter password if you activated this option

Charging the Tpad battery

You can charge the Tpad battery directly with the AC/DC adapter, or you can connect the battery directly to the battery charger when the Tpad is not in the desk stand.

Using the desk stand

Charging the battery in the desk stand

1. Place the battery in the battery charger.

battery charger
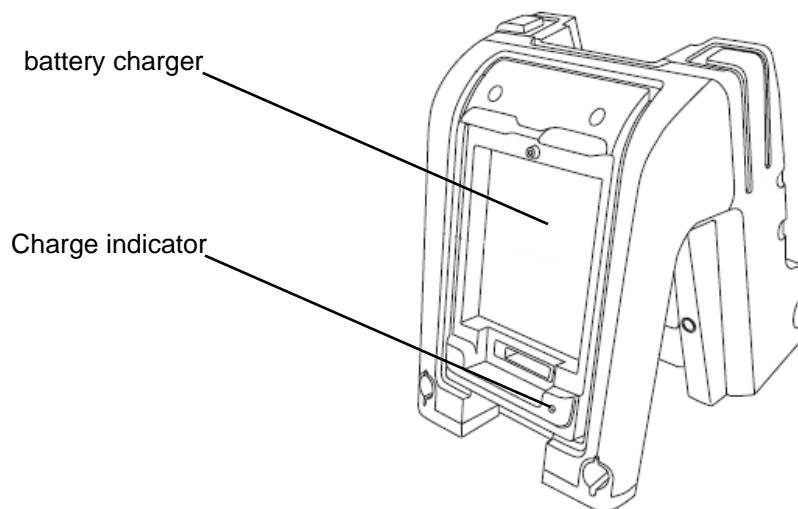
Charge indicator

2. Place the battery charger in the desk stand.
3. plug-in the power adapter on the battery charger

The Charge indicator flashes to indicate that the battery is charging.
When the battery is fully charged, the Charge indicator glows solid green.

Charging the battery outside the desk stand

Charging the battery outside the desk stand

1. Place the battery in the battery charger.

Tpad battery

battery charger

2. Connect the AC/DC adapter to the battery charger's Power connector.

3. Connect the AC/DD adapter to an electrical socket.

The Charge indicator flashes to indicate that the battery is charging.

When the battery is fully charged, the Charge indicator glows solid green.

Note: During battery swap the memory data is sustained by a small backup battery.
Please swap battery within 1 hours to avoid data loss.

Installing memory, multimedia cards or Compact Flash card

You can install additional memory or multimedia cards in the Tpad's SD/MCC socket.

The computer accepts one SD card (Secured Digital Card). Insert the card firmly into the slot and fix the rubber cover for water/dust protection.
To remove the card, push the SD card to release it.

Compact Flash slot

SD/MMC socket
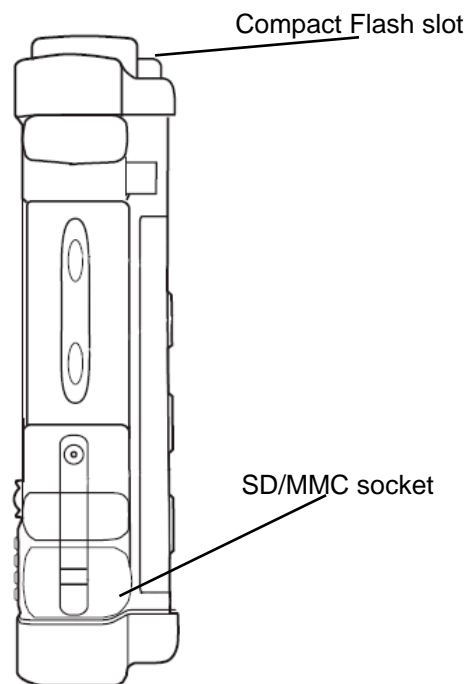
You can install Compact Flash card on the Tpad.
please refer to TETRA reseller or contact support@logic-instrument.com for supported Compact Flash cards.

Note :

If the CF card does not fit onto the Tpad with the CF cover installed then the Tpad is not sealed and loose its protection depending on the size of the Compact Flash card.

Using the Bluetooth

This section describes how to use the BlueTooth Manager for Windows CE. This section is for users and developers who need to use BlueTooth functions:

This document describes:
•   Software Installation.
•   Bluetooth Manager utilisation (with print screen)

ACRONYMS

FTP : File Transfer Profile. Bluetooth service used for File Transfer.
OPP : Object Push Profile. Bluetooth service used to send a file or card.
SPP : Serial Port Profile. Bluetooth service used to open a virtual serial communication between two peripherals.

1.   **Installation**
Bluetooth manager is already installed on the Tpad.
By default, the installation installs "\Program Files\BthManager "and creates the following directories: "\My Documents\Bluetooth\Ftp", "\My Documents\ Bluetooth\Opp", and "\My Documents\Bluetooth\Sync".

2.   **BlueTooth Manager**
When the BTh Manager is run in a window, icons are then displayed in the tools bar:
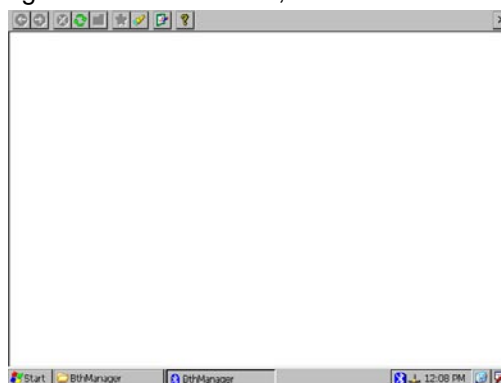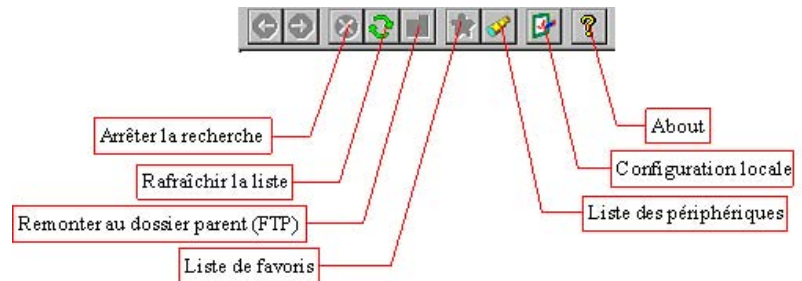
3 Peripheral search

On the initial start of the application, you need to click on [icon] to start the search of the remote Bluetooth peripherals. Then all peripherals will always be displayed to decrease search time. To refresh the list click on [icon] .

The search is done first on coupled peripherals and then it looks at distant peripherals.

During the search, the name or its class of the peripheral may not be is found. You could then update the peripheral settings by:

The search time could be lengthy, but it can be stopped by the [icon] icon.

3.2   Coupling of peripheral

The coupling could be done in two ways:

Could be requested by a peripheral or by the TPAD BlueTooth Manager, or the request is done by a right click and then choose «Pair».

In both cases, you need to enter the password :

Pair GARULFO ☒

Pin : | *** |

OK

After the password is entered, the request is applied to the two peripherals, you then could see if the peripherals are coupled:

Peripheral coupled   Peripheral coupled

3.3   **Proprieties and configuration**
Click on   , to see the local peripheral proprieties (MAC address, name and peripheral type) and it's possible to modify the security settings. You could choose if you want to set the peripheral to be detectable, un-detectable or set the couple to be mandatory for access of local services.

Properties OK ☒

General | Security |

Couplage obligatoire

Authentification :

☐ Enabled

Let other devices discover :

☑ Yes

Autoriser la découverte du périphérique
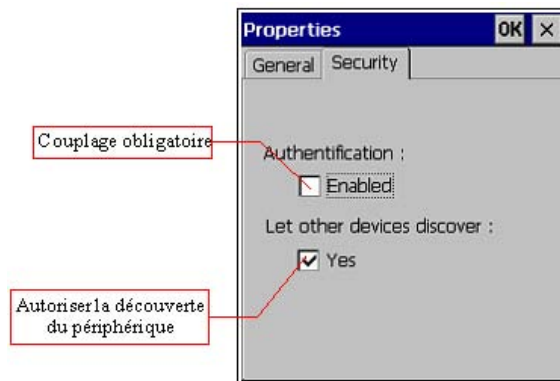
With the contextual menu on the icons, you could see the properties. (of a peripheral, a service, …).

GARULFO

Properties
Unpair
Update

3.4 Services Search

For Service search, just double click on the peripheral icon, then the Blue-
Tooth manager will display if the peripheral has FTP, OPP,and SPP services.

For the initial search, the BlueTooth Manager asks for the request of each
service.
It's possible to stop the search with or
refresh the service search list with .

3.5 Service Utilisation

3.5.1 File Transfer

To use this service, double click on the FTP icon or choose connect on the
contextual menu. The BlueTooth Manager displays the directory shared by
the distant peripheral. Then you can browse or choose the parent directory
with .
To get a file, double-click or choose " Get File " from the contextual menu. A
window is displayed with transfer time information.
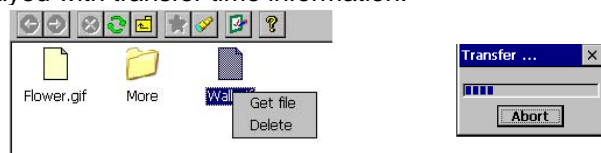
The file transferred is located on the following "\My Documents\Bluetooth\
Ftp". The path can change in the FTP proprieties.
The following window is displayed when you want to add a file to the distant
peripheral with a right-click on the folder or current folder.

Then, it's possible to delete a file when "Delete" is selected on the contextual
menu.

3.5.2 Object Push

To use this service, double-click or select "Push file" from the contextual menu. Then choose the file to transfer.
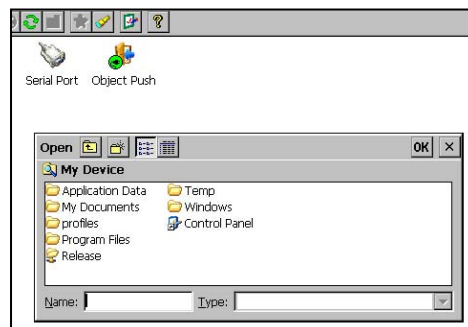
3.5.3 Serial Port

To use this serial service, double-click on the icon or choose "Connect " from the contextual menu. The information is displayed if the service is enabled or not.

 Service connected   Service not connected

When the service is on, all applications could use the virtual COM port. To know the COM port setting, select proprieties in the contextual menu.
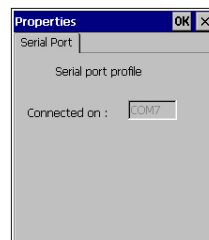
3.6 Stop the Bluetooth Manager

When the BlueTooth Manager window is closed, in fact the application is still running. To re-display or stop it, click on the BlueTooth icon on the Windows bar and select : "Show" or "Exit" .
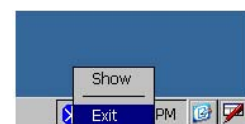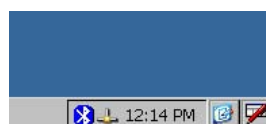
5   Troubleshooting and FAQ

Should the computer fail to function properly, you may try the following troubleshooting steps: (Please backup your data before troubleshooting)
• Check AC adapter, battery, and the power source.
• Press hardware reset to re-boot the computer.
Turn OFF the master switch for a while then turn ON and re-boot.
• Remove the software suspected.

Combination key table

Pressing the Fn Key 〔 **Fn** 〕 (Function Key) as a preliminary key allows entering a shifted character. The Fn icon will appear on the task bar and disappear when the second key is entered

Keys	Function
CLR	ESC
Fn+ ”1”	Lock Keyboard and Touchscreen
Fn+ “2”	Calibration
Fn+ “*”	Soft Reset
Fn	toggles between numeric, alpha lower case, and alpha upper case
	CLR key toggles between CLR and ESC
P3 + P4 + Reset	Run Diagnostic utility
Reset + Power-on	Hard Reset, default settings loose unsaved data

reset button

1- **How could we have a larger virtual keyboard?**
=> 3 Steps to launch Soft Keyboard Options

> 1 - Launch Control Panel
> 2 - Launch «Input Panel»
> 3 - Click «Options...» button to launch «Soft Keyboard Options»

2- How to **Calibrate the touchscreen**
=> After a reset, the Touchscreen needs to be re-calibrated.
There two different ways to access re-calibration.

> 1- enter in Control Panel / Stylus / Calibration and click on Recalibrate.
> 2- access directly to the calibration tool by pressing simultaneously Fn+ '2' combination keys to launch calibration

3-   How to display a presentation on PC monitor
Example: Projection on a retro projector connected to a PC and TPad for software demonstration:
- Install the software Microsoft ActiveSync from the following link:
http://www.microsoft.com/downloads/details.aspx?FamilyID=d2645c21-8a85-45a2-8d13-653beb6cdddc&DisplayLang=en

- The software PowerToys Remote Display Control could be downloaded on Microsoft following link:
http://www.microsoft.com/technet/prodtechnol/wce/downloads/ppctoys.mspx

The software is installed automatically C:\Program Files\Remote Display Control\cerhost.exe. We recommend creating a shortcut on the desktop.

- Software Utilisation:
You could find a user guide under C:\Program Files\Remote Display Control\ readme.txt.
Three stapes are necessary:
- Connect the peripheral (on) to the PC. Please check that ActiveSync detect the connexion.
- On the PC launch Remote Display Control (cerhost.exe)
- On the TPad execute \Windows\cerdisp.exe, click on Connect, use default parameter (PPP_PEER), and click Ok.
All data displayed on the TPad are immediately visible on the PC monitor. You can now zoom the window.
Consequently, if a retro projector is connected to the PC; whole assistance could see the displayed data on the TPad.

4-   Could we connect the TPad and/or Cradle directly to vehicle?
NOT directly but only with specific optional adapter provided by Logic Instrument.

5-   What are the Compact Flash Cards available?
The Tpad accept almost all CF cards available on the market however not all of them will fit in the Tpad due to Compact Flash cover size.
If you do not sealed the CF cover then the Tpad is not protected and severe injury may occur.

To know if a CF card fit with the Tpad please contact our local representative or e-mail us at support@logic-instrument.com

6-   Could we use Bluetooth printer?
Normally all BT printers or BT/USB/Parallel adapter should work properly if at least SPP profile is available, as BPP, BIP, OPP, HCRP profiles could also be used.

7-   **Alphanumeric keys and joystick life?**
- •   Power-key is 65,000 times.
- •   Keyboard (each key) is 260,200 times.
- •   Reset-key is 6,500 times.
- •   Function-key are 65,000 times.
- •   5 ways SW (each direction) is 260,200 times.

8-   How To Extend Your PDA's Battery Life
Your PDA is a valuable tool for mobile work. When the battery begins to fail or has failed, mobile users can be stuck. Take steps to protect and extend your PDA's battery life.
Here's How:
1. Use the AC adapter whenever you can. This not only charges the battery but extends the battery life.
2. Set your PDA to power down after a set period of inactivity.
3. Adjust the brightness of the screen. You don't need it to be 100% bright and it will consume less power.
4. Set the backlighting to turn off after a certain period of time.
5. Set your PDA on the lowest setting possible when not in use.
6. Remove any unused devices such as Compact Flash and PC cards.

9-   How long does it take to charge the battery

It takes two hours to charge the battery at 25°C.

10-   RMA Service

If troubleshooting is unsuccessful, please consult your dealer for service
If it is necessary to send in the Handheld device for repairs, please follow the
dealer's instructions for RMA# procedure.

Shipping instructions:

1. Use the original shipping container and packing materials,
if possible.

2. If the original packing materials are not available, wrap the
equipment with soft material (e.g., PU/ PE form) then put the
wrapped equipment into a hard cardboard shipping box.

3. Include a sheet with the following information: (Note:
please keep a copy for your record)
• Name
• Address
• Unit serial number
• Place and date of purchase or the original invoice
number
• Date of failure
• A DETAILED description of the problems you have
encountered
• A list of the hardware/software configuration, if
applicable.

4. Clearly mark the outside of the shipping box with the RMA
number. This will facilitate faster processing and avoid faulty
return.

5. Unless prior arrangements have been made, the customer
is responsible for all shipping costs. Unauthorized use of the
company's shipping accounts is not permitted.

11-   Cleaning & Maintenance

Always turn OFF the power, unplug the power cord and remove the battery before cleaning. The exterior of the system and display may be wiped with a clean, soft, and lint-free cloth. If there is difficulty removing dirt, apply non-ammonia, non-alcohol based glass cleaner to the cloth and wipe.

An air gun is recommended for cleaning water and dust. For salty water please wipe with fresh water then blow-dry with an air gun.

Close all caps tightly before water cleaning.

6   SPECIFICATIONS

CPU
Intel XScale PXA263 CPU speed 400MHz
Operating system   Windows CE NET 4.2

MEMORY
SDRAM   64MB
ROM   64MB

DISPLAY
Type: Resistive Touchscreen 4" Active TFT Full VGA
Resolution   (480x640), 64k/16-Bit colors
Backlight: YES
Transmissive, outdoor readable, integrated backlight, Automatic/Manual
brightness controller

I/O PORTS
Mono speaker
DC jack x 1
Docking port
XPM port
Compact Flash slot (type II x 1)
SD slot
serial port (optional)

Bluetooth COMMUNICATION
Built-in Bluetooth

SYSTEM UNIT DIMENSIONS AND WEIGHT

Width: 102.8mm
Depth: 46.5mm
Height: 186.1mm
Weight: 600g

AC ADAPTER

Voltage: AC 110~220 V
Frequency: 50/60 Hz

BATTERY

Type: Lithium Ion
Capacity: 7.4V 2400mAH
Back up battery   NiMH 20mAH

ENVIRONMENTAL RATINGS

MIL-STD-810F: Operating Temperature ; Storage Temperature ;
                    Thermal Shock ; Relative Humidity ; Solar Radiation
                    Salt Fog ; Corrosive Agents ; Integrity Vibration ;
                    Vehicle Vibration ; Functional Shock ; Crash Shock
                    Drop Test ; Transit Drop
IP65 (IEC 60529):   Dust impenetrable, jet water proof
Regulatory Compliance: CE, FCC part 15, EC 60950, CSA C2.2,
                    designed to be ATEX 94/9/EC zone 2
Temperature: -20° C (-4° F) to +50° C (122° F) operating
                    -40° C (-40° F) to +85° C (185° F) storage
Humidity: 95% @ 60° C (140) F)

A   Glossary

Adapter. A device that provides an interface between two dissimilar electronic devices. For example, the AC adapter modifies the power from a wall outlet for use by the computer.

Advanced Power Management (APM). A facility consisting of one or more layers of software that support power management. The APM software interface enables applications, operating systems, device drivers, and the APM BIOS to work together to reduce power consumption.

Alternating Current (AC). Electric current that reverses its direction of flow at regular intervals.

Analog signal. A signal with characteristics such as amplitude and frequency that vary in proportion to (are an analog of) the value to be transmitted. Voice communications are analog signals.

Application. A program that performs specific tasks on your computer, such as word processing or creating spreadsheets.

BIOS. Programs that contain such basic hardware operations as an interaction with diskette drives, hard disk drives, and the memory.

Board. A circuit board. An internal card containing electronic components called chips, which perform a specific function or increase the capabilities of the system.

Boot. To load a program or operating system into system memory.

Bits Per Second (BPS). In serial transmission, the instantaneous bit speed with which a device or channel transmits a character.

Card. Synonym for board; see board.

Compatibility. 1.The ability of one computer to accept and process data in the same method as another computer without modifying the data or the media upon which it is being transferred. 2.The ability of one device to connect or communicate with another system or component.

Configuration. The specific combination of hardware components of the computer, and their operating status. The configuration of your computer includes pre-defined memory, type and speed of microprocessor, type of and size of hard disk drive, etc.

Default. The preset parameter value automatically selected by the computer when you or a program do not provide instructions.

Device driver. A program that controls communication between a specific peripheral device and the computer.

Display. An image-producing device used to view computer output.

Double-click. To press and release the pen/stylus twice within a time frame you define, without moving the pointer off the choice.

Driver. Software that allows an application program to communicate with a particular piece of equipment, such as a printer or the pen/stylus.

Hardware. The physical electronic and mechanical components of a computer system. typically, the computer itself, CPU, memory, etc.

Hertz. A unit of wave frequency that equals one cycle per second.

Interface. 1. Hardware and/or software components used specifically to connect one computer or device to another. 2. To physically connect one system or device to another to exchange information. 3. The point of contact between user, the computer, and the program (for example, the pen/stylus or a menu).

Kilobyte (KB). A unit of 1024 bytes measuring storage space, typically in memory or on storage media such as a diskette or hard disk drive.

Local area network (LAN). Assembly of separate computers into an integrated network that connects the various computers together and to common devices such as printers and fax machines.

Light Emitting Diode (LED). A semiconductor device that emits light when a current is applied.

Liquid Crystal Display (LCD). liquid crystal sealed between two sheets of glass coated with transparent conducting material. Applying a voltage between the glass sheets darkens the liquid crystal to provide contrast to lighted portions of the display.

Megabyte (MB). A unit of data storage equal to 1024 kilobytes.

Megahertz (MHz). a unit of wave frequency that equals 1 million cycles per second.

Modem. A device that connects your computer to a telephone line, allowing it to communicate with another computer at another location.

Pen. See stylus.

Peripheral device. An input/output device that is external to the central processor and/or main memory such as a printer or scanner.

Pixel. Picture elements (tiny dots) that compose a screen image.

Port. The electrical connection through which the computer sends and receives data to and from devices or other computers.

Program. A set of instructions a computer can execute to tell the system what to do and how to do it.

Random Access Memory (RAM). A hardware component of your computer that temporarily stores active program code and data.

Reset. The act of reloading the operating system.

Resolution. The number of pixels displayed on the screen. A higher resolution provides greater clarity and allows more information to be displayed on the screen at once.

Restart. Resetting a computer without turning it off (also called warm boot or soft reset).

Resume. The act of returning the computer to an active, operational state.

Read Only Memory (ROM). The portion of your computer's memory that contains permanent instructions, and which cannot be modified.

Status Indicator (LED). a light above the LCD screen which indicates the current status of a particular device or hardware component.

Stylus. A writing instrument. For pen computers, the stylus is used to interface with the LCD and digitizer.

Suspend mode. A power conservation mode in which electrical current is removed from most components of the computer.

Universal Serial Bus. A serial interface that enables communication between devices and the computer.

Important safety information

Before you use the Tpad, read these safety instructions and the operation instructions in this handbook.
Failure to observe all these instructions voids the Limited Warranty and may lead to suspension or denial of services to the offender, or legal action, or both.
Follow any special regulations governing the use of the Tpad and, if radioenabled,
always switch it off in areas where radio devices are forbidden or when the radio device can cause interference or danger.
Always follow any safety laws and regulations pertaining to the use of cell phones and two-way radios, because these laws and regulations typically apply to the use of the BluetoothTpad.
Observe all restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, and wherever blasting operations are in progress or in any area in which restrictions on radio transmissions are imposed.
Switch off the Tpad when in an aircraft. The Tpad is not FAA-approved for use on aircraft. The effect of the use of the Tpad in aircraft is unknown. Using the Tpad in an aircraft may affect aircraft instrumentation, communication, and performance; may disrupt the network; and may be illegal.
Operating the Bluetooth Tpad may interfere with the functioning of inadequately protected medical devices such as pacemakers. Consult a physician or the manufacturer of the medical device if you have any questions.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.