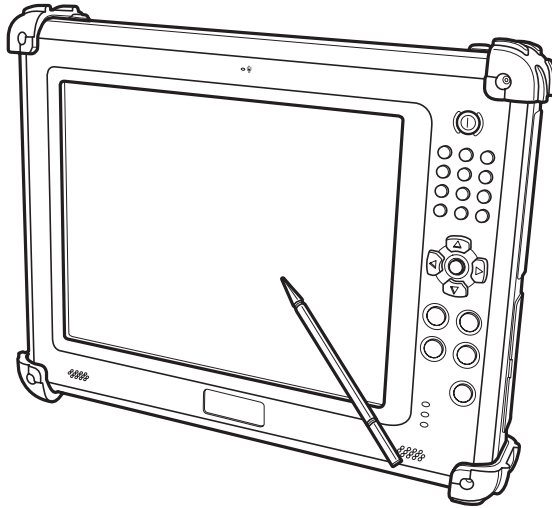


Rugged Tablet

PC-XT1100



User Manual

Ver 1.0

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Preface

CE Conformity Statement

This product is compliant with the Electromagnetic Compatibility Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC of the European Union. This product meets the following technical standards:

- EN 55022 — "Information Technology Equipment — Radio Disturbance Characteristics — Limits and Methods of Measurement."
- EN 55024 — "Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement."
- EN 61000-3-2 — "Electromagnetic Compatibility - Part 3: Limits - Section 2: Limits for Harmonic Current Emissions (Equipment Input Current Up to and Including 16 A Per Phase)."
- EN 61000-3-3 — "Electromagnetic Compatibility - Part 3: Limits - Section 3: Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment With Rated Current Up to and Including 16 A."
- EN 60950 — "Safety of Information Technology Equipment."

EN 55022 emissions requirements provide for two classifications:

- Class A is for typical commercial areas.
- Class B is for typical domestic areas.

To determine which classification applies to your product, examine the FCC or ICES information on the regulatory label located on the rear of the product. If the FCC or ICES information on the label indicates a Class A rating, the following Class A warning applies:

RF INTERFERENCE WARNING: This is a Class A product. In a domestic environment this product may cause radio frequency (RF) interference, in which case the user may be required to take adequate measures.

FCC Compliance Statement

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;
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced computer technician for help

This equipment marked in the USA is restricted by firmware to only operate on 2.4 GHz channel 1-11.

Caution : Exposure to Radio Frequency Radiation

The antenna used for this transmitter must be positioned to provide a separate distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Copyright Statement

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This product features software manufactured by Advanced Convergence Alliance, along with other third party software. All described herein shall not be distributed, modified, reverse engineered, or reproduced in any manner without the prior permission of Advanced Convergence Alliance or of the other third parties, to whom the software rights belong.

All other product names, trademarks or logos mentioned herein and are the property of their respective owners.

Safety Instructions

Pay careful attention to the following safety instructions when setting up and using the XT1100.

Rugged and Ready to Go

Congratulations on your purchase of the ACA Tablet PC-XT1100. This product combines rugged design with reliable performance and powerful functionality to best suit all your needs, in a wide range of working conditions.

This user manual outlines all you need to know to set up and use your XT1100. If you have any further questions or queries, contact our technical support team via our website: www.aca-digital.com.

Symbols Used in this Manual



Denotes information that must be observed. Failure to do so may result in personal harm or damage to the product.



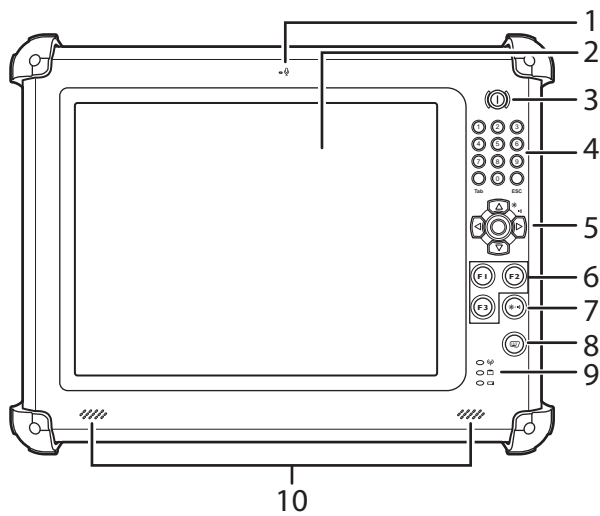
Denotes useful information that should be noted to ensure you get the most out of the product.

Product Features

- Rugged design, up to military standard (MIL-STD-810F)
- Low power CPU
- Durable, shock-resistant magnesium alloy housing
- Built-in WLAN/Bluetooth/GPS functions
- IP54 compliant & built to withstand a 3 foot drop
- VIA Eden 1GHz processor (upgradeable to 1.5 GHz)
- 10.4" SVGA / XGA TFT LCD
- I/O ports for expansion

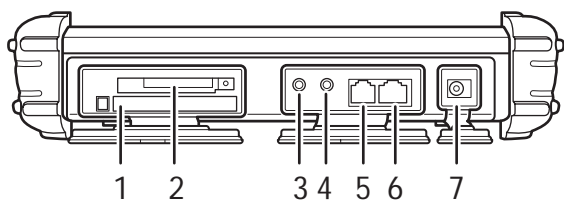
Exploring the XT1100

Front View



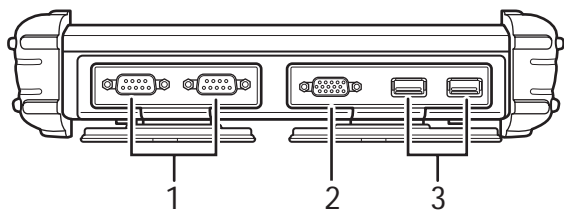
No.	Component
1	Microphone
2	Display
3	Power button
4	Number / Tab / Esc buttons
5	Arrow / Enter buttons
6	Favorite buttons
7	Brightness / volume button
8	Keyboard button
9	Status LEDs: <ul style="list-style-type: none">• WLAN connection status LED• HDD activity LED• Battery charge LED
10	Speakers

Left View



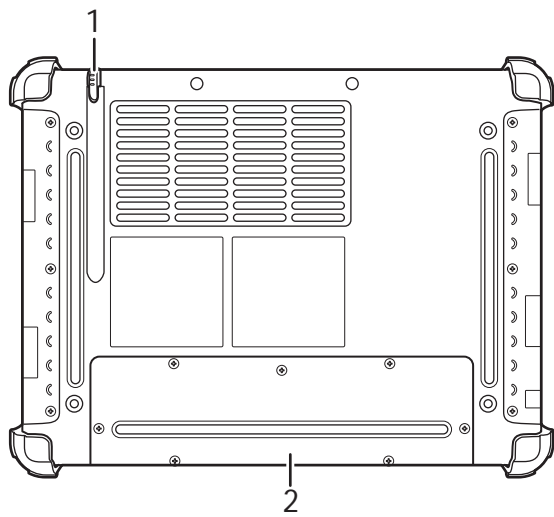
No.	Component
1	PC card slot
2	Compact Flash card slot
3	Headphone jack
4	Microphone jack
5	Telephone line jack
6	RJ45 jack (for network cables)
7	Power jack

Right View



No.	Component
1	Serial ports
2	VGA port
3	USB ports

Rear View

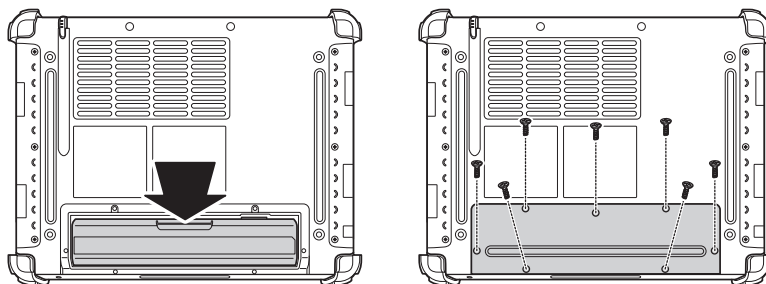


No.	Component
1	Pen holder
2	Battery compartment cover

Getting Started

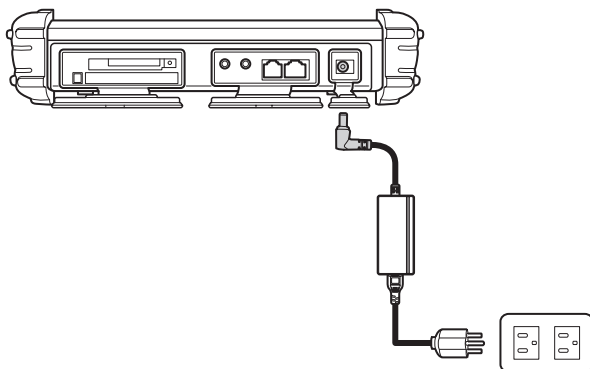
Inserting the Battery

Insert the battery as shown, and secure the battery compartment door with the seven screws provided.



Connecting the Power

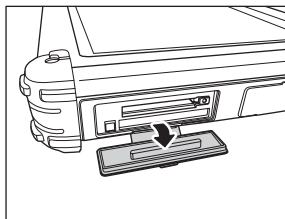
Before you can use your XT1100, you must fully charge the battery. Connect the power adapter as shown and leave to charge for a minimum of 4 hours before use.



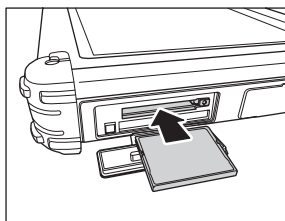
Inserting a Memory Card

You can insert a Compact Flash memory card to store data, which needs to be later transferred to another machine, or to simply expand the storage capacity of the XT1100. You can use Compact Flash cards up to 2GB in size.

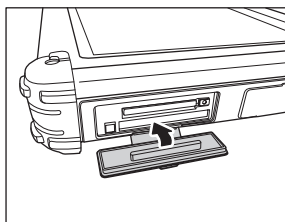
1. Open the memory card compartment cover.



2. Insert the Compact Flash card, until it clicks into place.



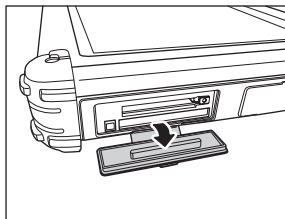
3. Close the memory card compartment cover.



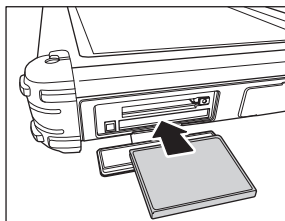
Inserting a PC Card

You can also insert a PC card to store and transfer data between computers with compatible PC card capabilities.

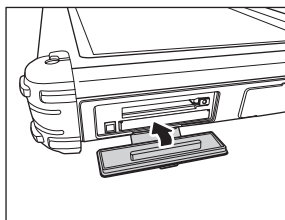
1. Open the memory card compartment cover.



2. Insert the PC card, until it clicks into place.



3. Close the memory card compartment cover.

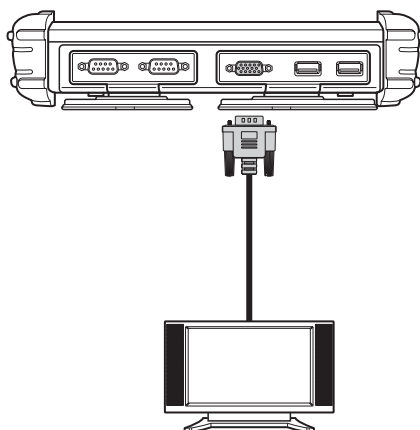


Making Connections

Connecting to a Monitor

You can connect the XT1100 to an external monitor for enhanced viewing.

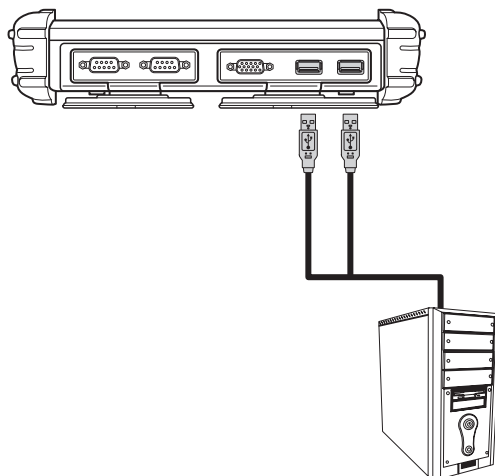
Connect one end of a VGA cable to the VGA port on the right side of the XT1100. Connect the other end to the VGA port on the monitor.



Connecting USB Devices

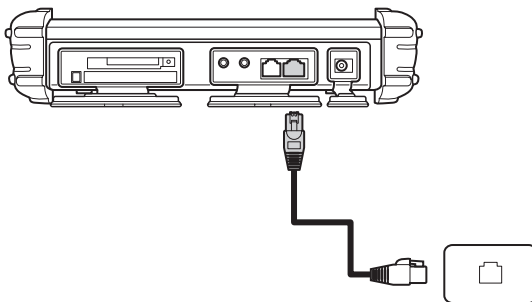
You can connect peripheral devices, such as a USB keyboard and mouse, as well as other wireless devices using the USB ports on the right side of the XT1100.

You can also connect directly to another PC using the USB ports.



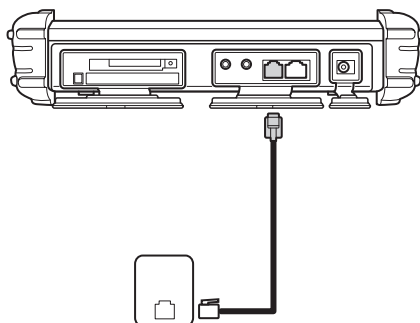
Connection to a Network

You can connect to either a home or work network using the RJ-45 port. Connect one end of the network cable to the RJ-45 port on the left side of the XT1100 and the other to your network hub or wall socket.



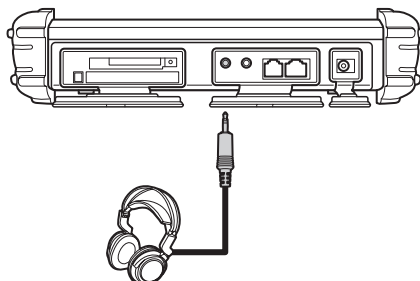
Connecting to a Telephone Line

If you are accessing the Internet via a regular telephone line, you can connect the XT1100 using the telephone jack on the left side of the XT1100.



Connecting Headphones

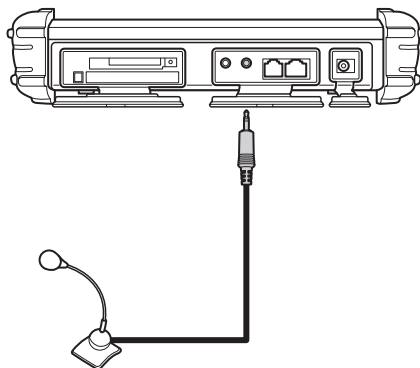
You can connect a pair of headphones using the headphone jack on the left side of the XT1100.



Connecting a Microphone

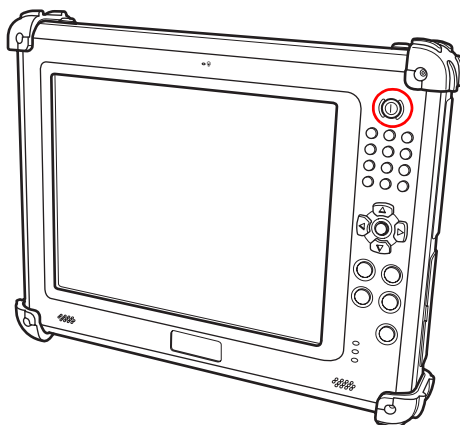
The XT1100 features an in-built microphone, but you can connect an external microphone if needed.

Connect the microphone to the microphone jack on the left side of the XT1100 as shown.



Turning On

Press and hold the power button to turn on the XT1100.

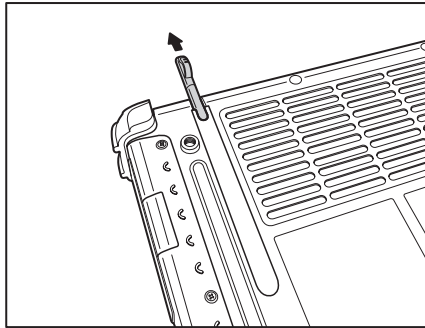


Controlling the XT1100

Using the Touch Screen

The XT1100 is equipped with touch screen technology, for ease of use when you are on the go. Simply use the pen to select icons and run applications.

Remove the pen from its holder at the rear of the XT1100 and you are ready to go.



Calibrating the Touch Screen

To calibrate the touch screen, tap the pointer device icon in the system tray.



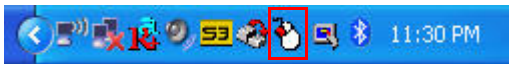
Select **Calibrate > Device 1 > Normal**. The calibration screen appears. Touch the four points as displayed onscreen using the pen.





A confirmation window appears. Click OK to confirm the new settings. If you do not do this within 10 seconds, the new settings will not be saved.


















When you tap on the screen with the pen, it emulates either a right or left button click on a regular mouse. To configure this setting, tap on the Event Selector icon in the system tray.











	Indicates a left click function will be performed when the pen is tapped on the screen.
	Indicates a right click function will be performed when the pen is tapped on the screen.


Using the Control Panel Buttons

The control panel buttons are located on the right of the touch screen. See below for a description of each button and its function.

Button	Name	Function
	Power	Press the power on and off the XT1100
         	Numbers	Press to enter numbers
   	Arrows	Press to move up, down, left, right

Button	Name	Function
	Enter	Press to emulate the Enter key
 Tab	Tab	Press to emulate the Tab key
 ESC	Escape	Press to emulate the ESC key
  	Function	Press to access your favorite programs
	Brightness/ Volume Settings	Hold and press the up or down buttons to adjust brightness. Hold and press the left or right buttons to adjust the volume level.
	Keyboard	Press to access the on-screen keyboard

Using the On-Screen Keyboard

Press the  button to bring up the on-screen keyboard.



Use pen to tap and enter letters, numbers and symbols as you would with a regular keyboard.

Configuring the Function Buttons

The three function buttons can be configured as shortcuts to access your favorite or frequently used programs.

1. Press the function button to which you want to assign a program shortcut to. The function button screen appears.
2. Tap **Open** and locate the program on the hard drive.
3. Tap **OK** to save all new settings.




Once you have assigned a function to one of the buttons, you can change it at a later date by tapping on the ACA Tray icon in the system tray.




Select **Function Key Setting** from the menu and follow the procedure described above from step 2 to make any changes.

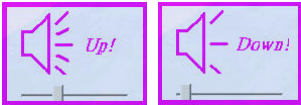
Adjusting Screen Brightness

1. Press and hold the  button.
2. Press the up arrow to increase brightness, or the down arrow to decrease brightness.



Adjusting the Volume

1. Press and hold the  button.
2. Press the right arrow to increase the volume, or the left arrow to decrease the volume.



You can also adjust the screen brightness through the ACA Tray. Tap the ACA Tray icon in the system tray, and select **Volume Adjustment**. Move the slider to make adjustments.

Wireless Connections

RaLink Wireless Utility



Should you experience any problems while attempting to configure a wireless connection, consult your systems administrator.

The XT1100 comes pre-loaded with the RaLink Wireless Utility software. This software should automatically detect any local WLAN (Wireless Local Area Network) and configure the connection automatically.

We recommend that you do not adjust these connections settings, for ease of use. Should you need to make changes, such as in the case of experiencing problems with your connection, see the following sections for help.

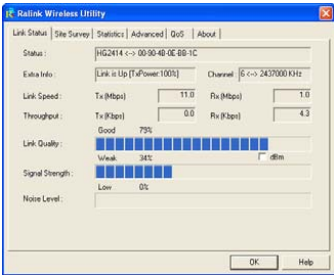
Tap the RaLink Wireless Utility icon in the system tray or tap **Start > All Programs > RaLink Wireless > RaLink Wireless Utility**.



Tap the tabs at the top of the screen to access the settings screens.

Link Status Screen

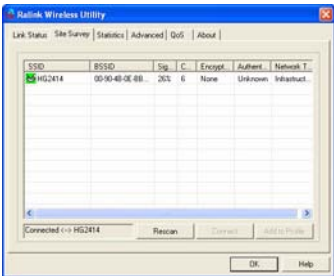
This screen displays all status information for your current wireless connections.



Site Survey Screen

This screen displays all available wireless networks and a summary of information for each connection.

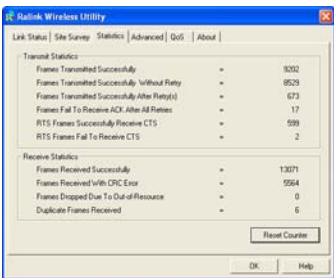
Tap **Rescan** to scan the area again for available networks.



Statistics Screen

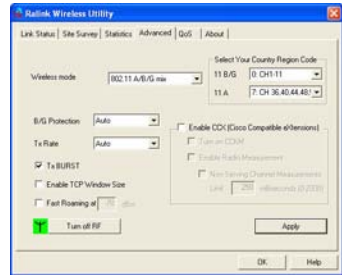
This screen displays statistics for all transmitted and received data.

Tap **Reset Counter** to reset all counters.



Advanced Screen

This screen displays detailed information on your current connection and is where you can adjust advanced settings.



- **Wireless mode:** You can configure the type of wireless mode here. Select either a single (802.11 A only / 802.11 B only) or mixed (802.11 B/G mix / 802.11 A/B/G mix) mode.
- **B/G Protection:** If the wireless mode you are using is 'mixed', you can select this to enable protection for your connection. Select from **Auto**, **On**, or **Off**.
- **Tx Rate:** You can configure the Tx rate for your connection here. Select from **Auto**, **1 Mbps**, **2 Mbps**, **5.5 Mbps**, **6 Mbps**, or **11 Mbps**.
- **Tx BURST:** Select this option to enable Tx BURST.
- **Enable TCP Window Size:** Select this option to enable TCP window size.
- **Fast Roaming at ---:** Select and enter a power value above which fast roaming will be enabled.
- **Select your Country Region Code:** Select your country region code for this connection. For information on this, contact your system administrator.
- **Enable CCX (Cisco Compatible eXtensions):** Select and configure these settings if you want to connect to a Cisco-compatible system.

Tap **Apply** then **OK** to save all changes.



Note

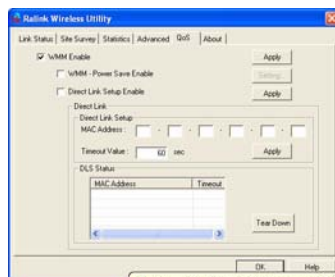
You must tap **Apply** to save any changes. If you only tap **OK**, any changes you have made will be lost.

QoS Screen

You can configure various QoS (Quality of Service) settings to best suit your needs from this screen.

- **WMM Enable:** Select this option to enable WMM. Tap **Apply**.
- **WMM - Power Save Enable:** Select this option to enable the power save function for the WMM function. Tap **Setting** to select a power save setting.
- **Direct Link Setup Enable:** Select this option to enable the setup of a direct link. Enter the link information under Direct Link Setup box and tap **Apply**.
To remove the direct link, tap **Tear Down** under the DLS Status box.

Tap **OK** to save all changes.



About Screen

This screen displays software version information along with IP address, sub mask, physical address and gateway information.



Windows Basics

General Use

The Start Menu

Tap the Start button for easy access to your notebook's programs and settings:

- Tap **All Programs** to view a list of all installed programs.
- Tap **Control Panel** to view and adjust your system settings.
- Tap **My Computer** to explore your system and access any external storage devices.
- Tap **Log Off** to log off as the current user (see "Logging Off" on page 20).
- Tap **Turn Off Computer** to shutdown the system (see "Logging Off" on page 20).



Creating User Accounts

When you start Windows XP for the first time, you are logged in as the administrator. You can also create additional user accounts should your XT1100 be used by multiple users.

1. Tap **Start > Control Panel > User Accounts**.
2. Under **Pick a task**, tap **Create a new account**.
3. Enter the name of the new user. Tap **Next**.
4. Under **Pick an account type**, choose one of the following options:
 - **Computer administrator**: The user can change all computer settings.
 - **Standard** (Windows XP Professional only): The user has permission to install limited programs and hardware.

- **Limited:** The user can only change their own personal settings. Limited users cannot install any programs, hardware, or access the Internet.
5. Tap **Create Account** to create the new user.

Logging Off

You can switch users easily without turning off the computer.

1. Tap **Start > Log Off > Log Off**.
2. The Welcome screen will appear. To log on again, tap the user you wish to log in as.

Turning Your XT1100 Off

To turn off your XT1100 safely, save any files you are working on, exit all open programs and tap **Start > Turn Off Computer > Turn Off**.



Turning off the computer by pressing and holding the power button is **not** recommended. You will lose unsaved files and risk corrupting other programs.

Programs and Applications

Running Programs and Applications

You can run a wide range of programs and applications on your XT1100, the majority of which will be accessible via the Start menu.

1. Tap **Start > All Programs**.
2. Tap to run a program from the list.

Installing Software

You can install software located from external storage devices (such as a USB flash disk or external hard drive) to your XT1100 provided they are correctly inserted to one of the XT1100's input ports.



Before installing any new software, ensure that its technical requirements match those of your XT1100.

1. Tap **Start > My Computer**.
2. Locate the device on which the software is stored, and double tap its icon to browse files.
3. Locate the .exe (executable) file of the program you wish to install and double tap.
4. Follow all on screen instructions.

Uninstalling Software

Uninstalling software is as simple as installing it.

1. Tap **Start > Control Panel > Add or Remove Programs > Change or Remove Programs**.
2. Select the program that you want to remove and tap the **Change/Remove** button.
3. Follow on screen instructions to uninstall the software.

Some programs cannot be uninstalled deleted in this way; these programs often feature a dedicated **Uninstall / Delete** option in the program folder in the **All Programs** list.

File Management

Searching for Files

You can use the Search functions to locate files.

1. Tap **Start > Search**.
2. Enter either all or part of the file name, or a word or phrase in the file.
3. Select a drive or drives to search from the drop down list.
4. Tap **Search** to begin searching.
5. Files found that match your search criteria are listed in the Search Results window.

Copying Files

You can copy files from one location to another.

1. Tap **Start > My Computer**.
2. Locate the file you want to copy, and tap to select it.
3. Under **File and Folder Tasks**, tap **Copy this file**.
4. Select the location where you want to copy the file.
5. Tap **Copy**.

Renaming Files

Use either Windows exploring or the procedure described above to locate the file you wish to rename.

1. Tap to select the file.
2. Tap **File > Rename**.
3. Type the new filename and press **Enter**.



Never change the last three letters (the file extension) of a file. Doing so will render the file unusable by the application for which it was designed.

Deleting Files

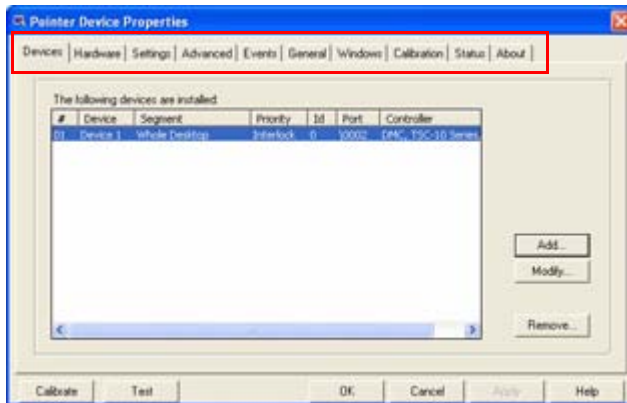
Use either Windows exploring or the procedure described above to locate the file you wish to delete.

1. Tap to select the file.
2. Tap **File > Delete**.
3. Tap **OK** when the confirmation dialog appears

Advanced Settings

Configuring Pointer Device Settings

Tap the pointer device icon in the system tray and select Adjust settings, or tap **Start > All Programs > UPDD > Settings** to access pointer device settings.



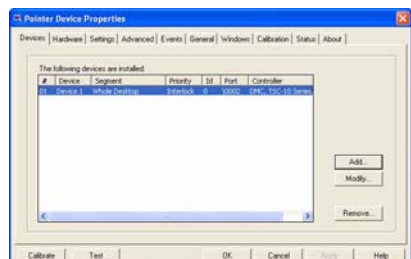
Tab the tabs at the top of the screen to access the settings screens. See the following sections for detailed descriptions of each screen.

Devices Screen

This screen displays all installed pointer devices. Device 1 is the touch screen pointer driver by default.

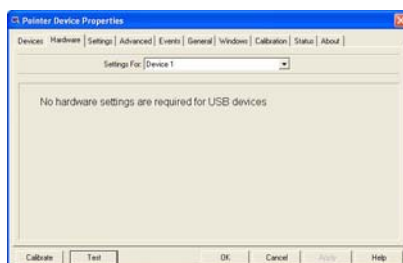
- **Add:** Tap to add a new pointer device. Select the device type from the list that appears.
- **Modify:** Tap to modify the selected device.

Tap **Apply** and then **OK** to save any new settings.



Hardware Screen

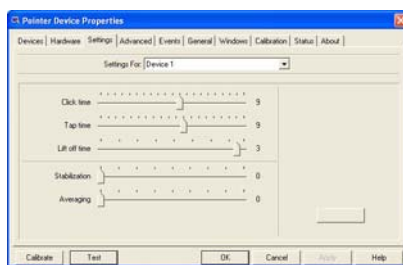
This screen displays any specific hardware settings for the installed pointer devices. Select the device from the **Settings For:** drop down list.



Settings Screen

You can configure various settings for your pointer devices from this screen.

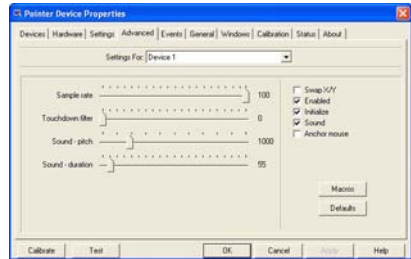
1. Select the device from the **Settings For:** drop down list.
2. Tap and drag the sliders to adjust the setting you require:
 - **Click time:** Adjusts the amount of time between clicks.
 - **Tap time:** Adjusts the amount of time between taps.
 - **Lift off time:** Adjusts the amount of time between when the pen is lifted from the screen and the system registers this 'lift off'. This setting only applies when the **Use liftoff packet** option is selected. If this option is not selected, the system will register a lift off as soon as the pen loses contact with the screen.
 - **Stabilization:** Adjusts the system's sensitivity to small movements made with the pointer device.
 - **Averaging:** Applies a filter to inputted strokes to provide a smoother line.
3. Tap **Apply** to save all changes or **Defaults** to return all values to their default settings.



Advanced Screen

You can configure advanced pointer device settings from this screen.

1. Select the device from the **Settings For:** drop down list.
 2. Tap and drag the sliders to adjust the setting you require:
 - **Sample rate:** Adjusts the amount of information sent from the pointer device to the computer. This should be set at 100%.
 - **Touchdown filter:** Adjusts the number of taps are ignored before the system recognizes a tap on the screen.
 - **Sound - pitch:** Adjusts the pitch of the sound made when a button on the pointer device is pressed.
 - **Sound - duration:** Adjusts the length of the sound made when a button on the pointer device is pressed.
- You can also activate the following functions:
- **Swap X/Y:** Swaps the X and Y axis.
 - **Enabled:** Check to enable the device.
 - **Initialize:** Check to initialize the device.
 - **Sound:** Check to enable sound when a button on the pointer device is pressed.
 - **Anchor mouse:** Check to return the cursor to its original position after the pointer device has been used.
3. Tap **Apply** to save all changes or **Defaults** to return all values to their default settings.



General Screen

You can configure general pointer device settings from this screen.

You can activate the following functions:

- **Show icons in system tray:** Check to display the pointer device system tray icon (recommended).
- **Check calibration:** Check to display a Check Calibration dialog at the end of calibration (see “Calibrating the Touch Screen” on page 11).
- **Calibration Beeps:** Check to enable a sound when each calibration point is selected.
- **Select Dump settings** to export all settings to a .txt file, or **Clone** to save the settings to a .reg file. This is useful should you need to import the settings again during a future installation of the software.

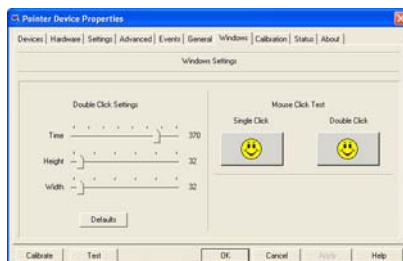
Select **Apply** to save all changes.



Windows Screen

You can configure how the pointer device will behave when a button is pressed from this screen.

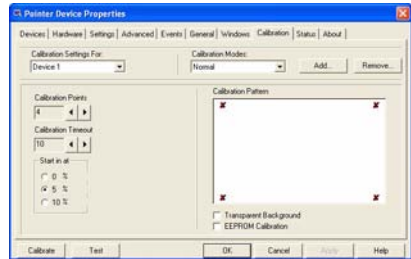
1. Tap and drag the sliders for the setting you require:
 - **Time:** Adjusts the amount of time between within which two clicks will be recognized as a double-click.
 - **Height:** Adjusts the height of the area within which two clicks will be recognized as a double-click.
 - **Width:** Adjusts the width of the area within which two clicks will be recognized as a double click.



2. You can test your new settings by clicking on the images under **Mouse Click Test**.
3. Click **Apply** to save all settings.

Calibration Screen

You can configure calibration settings from this screen. This is how the calibration screen will appear when you calibrate pointer devices. A preview can be seen under **Calibration Pattern**.

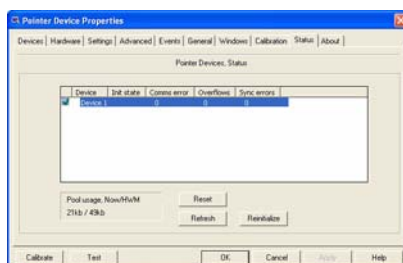


1. Select the device you wish to calibrate from the **Calibration Settings For:** drop-down list.
2. Select the number of calibration points to be displayed during calibration under **Calibration Points**.
3. Set the calibration timeout length under **Calibration Timeout**.
4. Select the distance between the edge of the screen and calibration points under **Start in at**.
5. Select **Transparent Background** to calibrate on a transparent screen, or **EEPROM calibration** (Electrically Erasable Programmable Read-Only Memory) to use previously stored calibration settings.
6. Once you have configured all settings, you can save them under the standard **Normal** calibration mode, or as a new mode. To save the settings as a new calibration mode, tap **Add**, enter the name of the mode and tap **OK** to save.
7. Click **Apply** to save all changes.

Status Screen

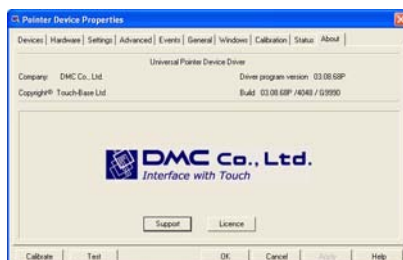
This screen displays status information for all installed pointer devices.

- Tap **Reset** to reset the list.
- Tap **Refresh** to refresh the list.
- Tap **Reinitialise** to reinitialise a dormant pointer device.



About Screen

This screen displays software version information. Tap **Support** to access further technical support should you need it.



Specifications

Feature	Description
Operating System	Windows Xp Embedded/ Windows XP Pro / Windows CE 5.0
Processor	VIA Eden 1GHz (Ultra Low Voltage Mobile, up to 1.5 GHz)
Chipset	VIA CX700M (with video acceleration)
Memory	DDRII400 256MB on board (Use BIOS setup to adjust parameter for expansion memory) 1 x SO-DIMM up to 1GB (factory option)
Storage	Compact Flash Memory Card or 2.5" HDD
Display	10.4" SVGA/XGA Transmissive TFT LCD, optional 10.4" sunlight readable XGA
Touch Panel	4-wire resistive touch panel (USB interface)
Application Button	1 x Power Button 12 numeric keys (0~9, #, *) 1 x SIP button (Software keyboard button) 4 x Function programmable buttons for quick selection of applications 4-Way navigation button with integrated enter button
Wireless	802.11a/b/g WLAN (miniPCI) module with built-in integral antenna (factory option) Bluetooth class 2, v2.0+EDR with built-in integral antenna (factory option) GPS module with built-in integral antenna (factory option) (UART port)
Audio System	CX700M built-in audio, uses high definition external codec

Feature	Description
LED Status Indicators	<p>Power LED:</p> <p>Off: Power off</p> <p>Solid green: battery is charging, system is off</p> <p>Blinking green: battery is charging, system is on</p> <p>Solid yellow: Power on, battery low</p> <p>Blinking yellow: Power on, battery critically low</p> <p>HDD LED:</p> <p>Green when HDD is being accessed</p> <p>WLAN LED:</p> <p>Off: No RF signal / No LAN connection</p> <p>Solid Green: WLAN activated</p> <p>Blinking Green: TX/RX transmission</p>
I/O Ports	<p>2 x USB 2.0 host connectors</p> <p>2 x RS-232/422/485One RGB output</p> <p>1 x CF Type II slot</p> <p>1 x PCMCIA Type II slot, supports CardBus 2.1</p> <p>1 x internal mono micOne mono speaker</p> <p>1 x RJ45 for 10/100/1000MB Ethernet</p> <p>1 x RJ11 for 56kbps v.92/k56 flex modem</p> <p>1 x audio jack for stereo headphone</p> <p>1 x audio jack for microphone</p> <p>1 x DC-IN</p> <p>1 x docking connector</p>
Main Battery	<p>Swappable battery back of 6 li-ion 18650 2400mAh cells (3S2P)</p>
Power Adapter	<p>Universal AC 90V ~ 265V, 47 ~ 63Hz input; 19V, 3.16 A output</p>
Physical	<p>320x246x52 mm, 2.758 kg</p>
Environment	<p>Operating Temperature: -20°C to 60°C</p> <p>Storage Temperature -40°C to 70°C</p> <p>Operating Humidity 5% ~ 95%</p>
Rugged Spec.	<p>IP54, 3ft drop, MIL-STD-810F, MIL-STD-461E</p>

Feature	Description
Compliance	CE, FCC, cUL/UL
Accessories	1 x AC adapter & power cord 1 x Cradle 1x Stylus Others