

# User's Guide

Learn how to use your  
Fujitsu STYLISTIC® Q702  
Hybrid Tablet



FUJITSU

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### USER GUIDE FOR WIRELESS BROADBAND CONNECTION



IF YOU HAVE THE OPTIONAL WIRELESS WAN (WWAN) DEVICE INSTALLED IN YOUR HYBRID TABLET, THE WWAN USER'S GUIDE IS LOCATED AT:

[http://solutions.us.fujitsu.com/www/content/support/mobile/support\\_notices](http://solutions.us.fujitsu.com/www/content/support/mobile/support_notices)

PLEASE CLICK "3G MINI-CARD GOBI3000 REGULATORY AND SAFETY INFORMATION" TO OPEN THE FULL USER GUIDE CONTAINING WARNINGS AND PRECAUTIONS ASSOCIATED WITH RF SAFETY WHEN USING THE WWAN DEVICE.

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### DECLARATION OF CONFORMITY

according to FCC Part 15

Responsible Party Name: Fujitsu America, Inc.

Address: 1250 E. Arques Avenue  
Sunnyvale, CA 94085

Telephone: (408) 746-6000

Declares that product: Base Model Configuration: STYLISTIC Q702 Hybrid Tablet

Complies with Part 15 of the FCC Rules.

This device complies with Part 15 of the FCC rules. Operations are 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.

## IMPORTANT SAFETY INSTRUCTIONS

This unit requires an AC adapter to operate. Use only UL Listed I.T.E. Adapters with an output rating of 19 VDC, with a current of 3.16A (60 W).

**AC adapter output polarity:**



When using your Hybrid Tablet, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:



**CAUTION: HOT SURFACE: THE BOTTOM OF THIS COMPUTER CAN BECOME HOT WHEN USED FOR LONG PERIODS OF TIME. WHEN USING THIS DEVICE, TAKE CAUTION TO LIMIT LONG TERM OR CONTINUOUS USE WHILE RESTING IT ON EXPOSED SKIN, SUCH AS THE LAP.**

- Do not use this product near water for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.



**CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.**

### SAVE THESE INSTRUCTIONS

## For Authorized Repair Technicians Only



**DANGER OF EXPLOSION IF LITHIUM (CLOCK) 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 INSTRUCTION.**



**FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE AND RATING FUSE.**

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# Preface

## About This Guide

The STYLISTIC® Q702 Hybrid Tablet is a high-performance pen-based computer that has been designed to support Microsoft® Windows® 7 Professional edition.

This manual explains how to operate your Hybrid Tablet hardware and built-in system software.

The STYLISTIC Q702 Hybrid Tablet is a completely self-contained unit with a 11.6" HD IPS display with 160 degree vertical and horizontal viewing angles. It has a powerful interface that enables it to support a variety of optional features.

### Conventions Used in the Guide

Pages with additional information about a specific topic are cross-referenced within the text.

On screen buttons or menu items appear in bold. Example: Click **OK** to restart your Hybrid Tablet.



THE INFORMATION ICON HIGHLIGHTS INFORMATION THAT WILL ENHANCE YOUR UNDERSTANDING OF THE SUBJECT MATERIAL.



THE CAUTION ICON HIGHLIGHTS INFORMATION THAT IS IMPORTANT TO THE SAFE OPERATION OF YOUR COMPUTER, OR TO THE INTEGRITY OF YOUR FILES. PLEASE READ ALL CAUTION INFORMATION CAREFULLY.



THE WARNING ICON HIGHLIGHTS INFORMATION THAT CAN BE HAZARDOUS TO EITHER YOU, YOUR HYBRID TABLET, OR YOUR FILES. PLEASE READ ALL WARNING INFORMATION CAREFULLY.

## Fujitsu Contact Information

### Service and Support

You can contact Fujitsu Service and Support in the following ways:

- Toll free: 1-800-8FUJITSU (1-800-838-5487)
- Website:  
U.S.A. - [us.fujitsu.com/solutions](http://us.fujitsu.com/solutions)  
Canada - [www.fujitsu.ca](http://www.fujitsu.ca)

Before you place the call, you should have the following information ready so that the customer support representative can provide you with the fastest possible solution:

- Product name
- Product configuration number
- Product serial number
- Purchase date
- Conditions under which the problem occurred
- Any error messages that have occurred
- Type of device connected, if any

### Fujitsu Shopping Online

You can go directly to the online by going to the website at: [www.shopfujitsu.com](http://www.shopfujitsu.com).

## **Maintaining Latest Configuration**

To ensure that you always have the most current driver updates related to your system, you should occasionally access the Fujitsu Software Download Manager (FSDM) utility. The FSDM utility is available to allow you to download the latest drivers, utilities, and applications from the Fujitsu Support site. If you have a Windows 7 operating system, you will need to go to the Support Site (<http://support.fujitsupc.com/CS/Portal/support.do?srch=DOWNLOADS>).

## **Limited Warranty**

Your Hybrid Tablet is backed by a Fujitsu International Limited Warranty. Check the service kit that came with your tablet for the Limited Warranty period and terms and conditions.

## Chapter 1

# Getting to Know Your Hybrid Tablet

### Overview

The STYLISTIC® Q702 Hybrid Tablet is a high-performance pen-based computer that has been designed to support Microsoft® Windows® 7 Professional edition.

The Q702 Hybrid Tablet is called a "hybrid" because when used with the optional keyboard docking station, it has the looks and functionality of a traditional laptop.

This chapter provides an overview of the STYLISTIC Q702 Hybrid Tablet and its many features.

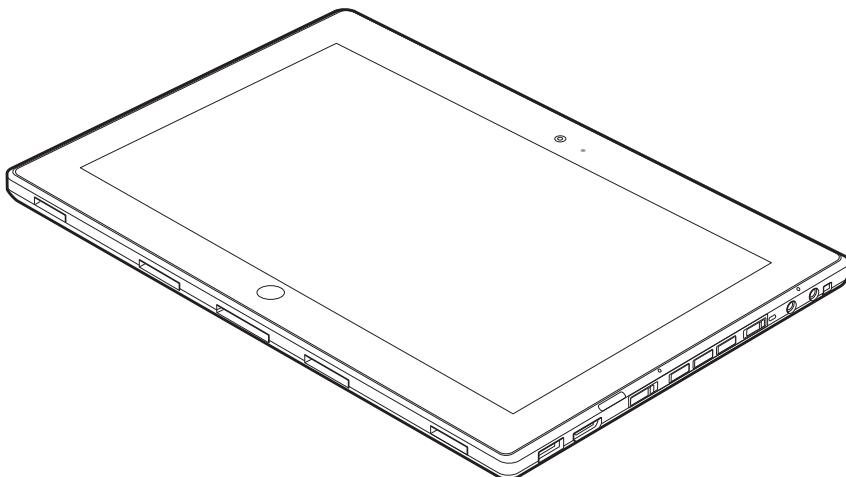
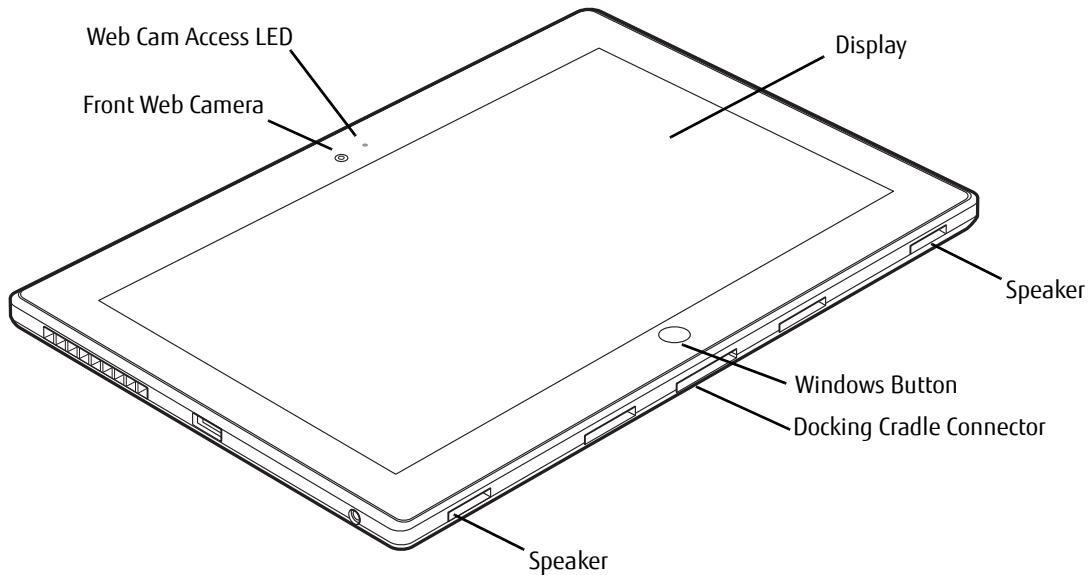


Figure 1. STYLISTIC Q702 Hybrid Tablet

## Locating the Connectors and Controls

Features and controls that you use to operate your Hybrid Tablet are outlined below and illustrated in Figures 2 and 3. Details on using these features and controls are provided later in this manual.



**Figure 2. STYLISTIC Q702 Hybrid Tablet Features (Bottom, Right View)**

### Front Features

#### Front Web Camera

The front-facing HD (1280x720 pixel) web camera allows you to take pictures of yourself to send over the internet. For information on using the microphone and web cam, see the documentation associated with the YouCam application.

#### Web Cam Access LED

The web cam access LED indicates when the web camera is in use.

## **Display**

The 11.6" HD IPS display offers 160 degree vertical and horizontal viewing angles.

## **Speakers**

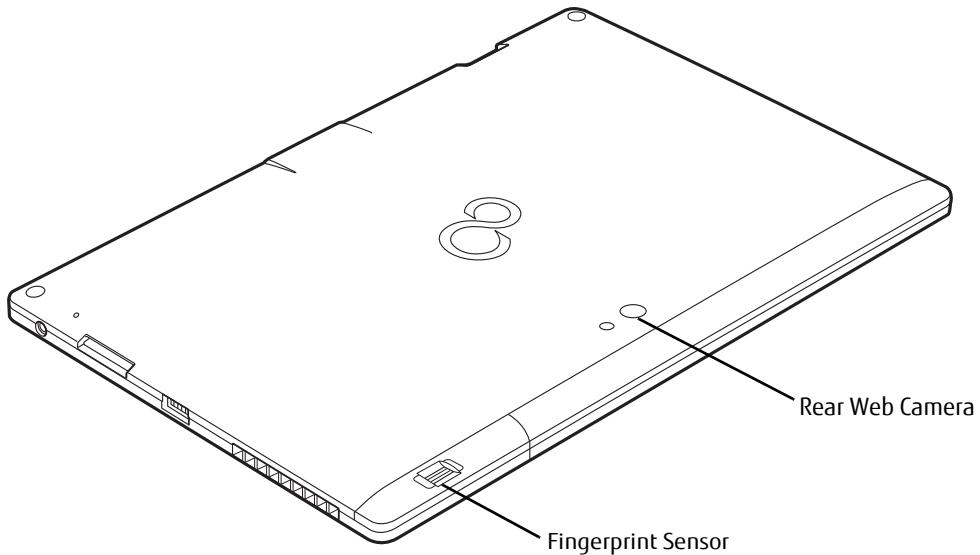
The speakers allow you to hear stereo sound from the system.

## **Windows Button**

Pressing the Windows button gives you quick access to the Start menu.

## **Docking Cradle Connector**

Allows you to connect the optional STYLISTIC Keyboard Docking Station.



**Figure 3. STYLISTIC Q702 Hybrid Tablet Features (Back View)**

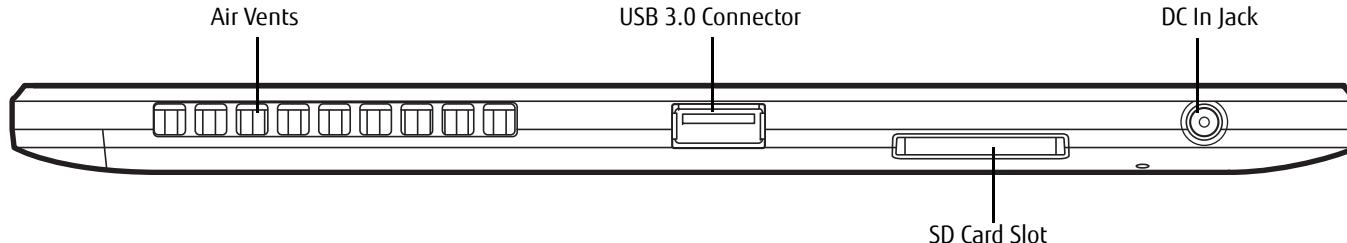
## Back Features

### Rear Web Camera

The FHD (1920x1080 pixel) rear web camera allows you to take pictures of objects in front of you for sharing over the internet. For information on using the camera, see the documentation associated with the YouCam application.

### Fingerprint Sensor

The fingerprint sensor allows you to start your system by swiping your finger over the sensor. See "Introducing the Fingerprint Sensor Device" on page 99.



**Figure 4. STYLISTIC Q702 Hybrid Tablet Features (Left View)**

## Left features

### Air Vents

The air vents are used to cool the system to prevent overheating.



TO PROTECT YOUR TABLET FROM DAMAGE AND TO OPTIMIZE PERFORMANCE, BE SURE TO **KEEP ALL AIR VENTS UNOBSTRUCTED, CLEAN, AND CLEAR OF DEBRIS**. THIS MAY REQUIRE PERIODIC CLEANING, DEPENDING UPON THE ENVIRONMENT IN WHICH THE SYSTEM IS USED.

DO NOT OPERATE THE TABLET IN AREAS WHERE THE AIR VENTS CAN BE OBSTRUCTED, SUCH AS IN TIGHT ENCLOSURES OR ON SOFT SURFACES LIKE A BED OR CUSHION.

### USB 3.0 Connector

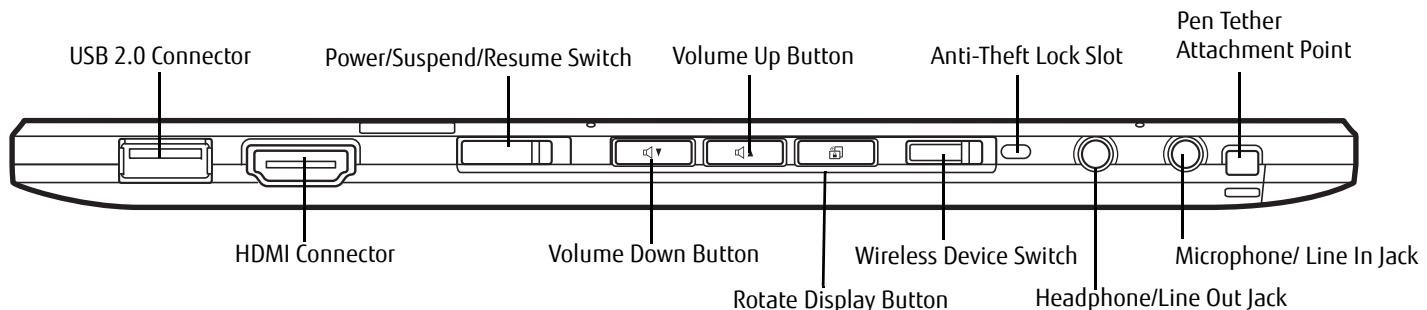
Allows you to connect Universal Serial Bus-compliant devices (compliant with USB Standard Revision 3.0) to the Hybrid Tablet.

### DC In Jack

Allows you to connect the AC adapter or auto adapter.

### SD Card Slot

The Secure Digital (SD) card slot allows you to insert a flash memory card for data storage. Flash memory cards allow you to transfer data to and from a variety of different digital devices. See "Secure Digital Cards" on page 44.



**Figure 5. STYLISTIC Q702 Hybrid Tablet Features (Right View)**

## Right Features

### USB 2.0 Connector

Allows you to connect Universal Serial Bus-compliant devices (compliant with USB Standard Revision 2.0) to the Hybrid Tablet. Two additional USB 2.0 ports are located on the optional Keyboard Docking Station.

### Power/Suspend/Resume Switch

Allows you to turn on, off, sleep, resume, hibernate or wake the Hybrid Tablet in order to optimize battery life. See "Starting Your STYLISTIC Hybrid Tablet" on page 37.

### Volume Up / Volume Down Buttons

The Volume Up and Volume Down buttons allow you to control the volume of the tablet.

### Anti-theft Lock Slot

The anti-theft lock slot allows you to attach an optional physical lock down device.

### Pen Tether Attachment Point

The pen tether attachment point is used to connect your pen -- or stylus -- to the system to prevent its loss.

## **Headphone/Line Out Jack**

The headphone jack allows you to connect headphones. See "Headphone Jack" on page 81.

## **Microphone/Line In Jack**

The microphone jack allows you to connect an external stereo microphone. See "Microphone Jack" on page 81.

## **Wireless Device On/Off switch**

The wireless device on/off switch is used to turn the optional WLAN, WWAN, and Bluetooth devices on and off. Switching the device off when not in use will help to extend battery life.

## **Rotate Display Button**

The Rotate Display button allow you to change the orientation of the display from horizontal to vertical.

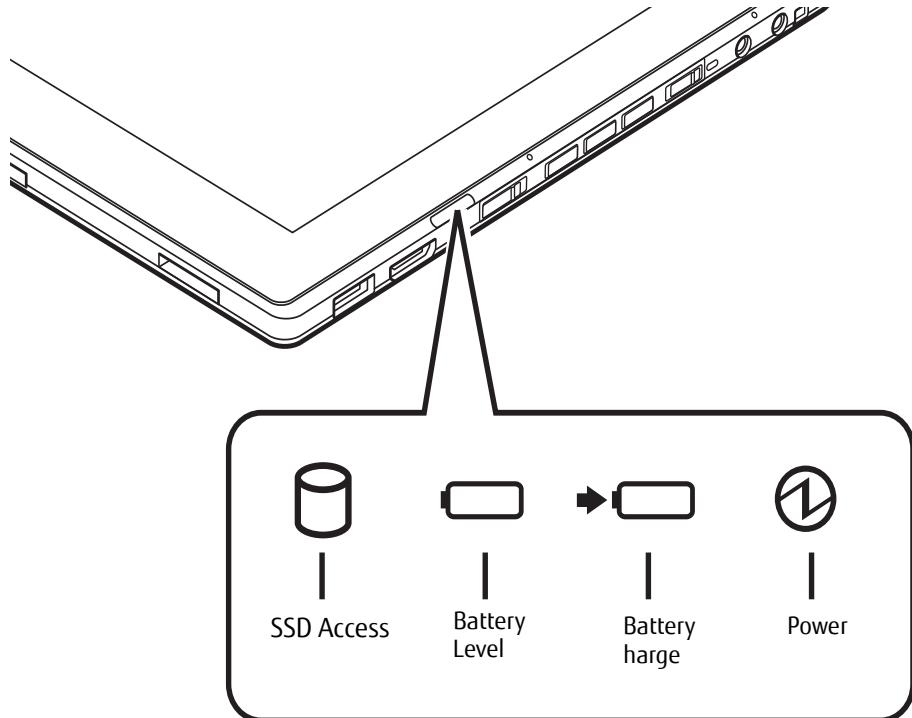
## **HDMI Connector**

The HDMI port is used to connect compatible digital devices with your computer (such as a high-definition television or AV receiver).

## Status Indicator Panel

Icons appear under each of the system status LEDs in the status display indicating the status of the solid state drive, system power, battery charge and battery level status. The location of icons in the Status display is shown in Figure 6.

Table 1 explains how the LEDs associated with the individual icons are displayed, and describes what the variations of the displays indicate. (If an icon is not displayed, it indicates that the related system function is off or inactive.

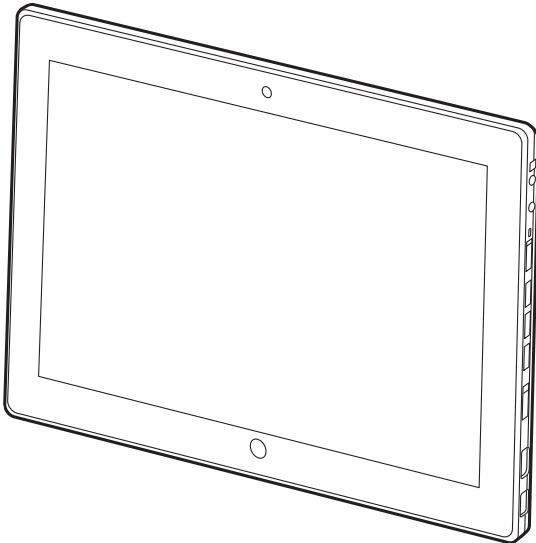


**Figure 6. Status Display Icons**

**Table 1 . Status Display Conditions**

In the following table, a "blinking" LED flashes at the rate of once per second; an LED that is "blinking, slow" flashes at the rate of one second on, five seconds off.

| Icon   | LED State      | Remarks   |
|--|----------------|---|
|   | Green, solid   | The indicator lights up green: The hard disk drive is being accessed. |
|   | Green, solid   | The battery is fully charged.   |
|  | Orange, solid  | The battery is partially charged.                                     |
|  | Red, solid     | The battery is nearly discharged.                                     |
|  | Off            | The Tablet is switched off or in Save-to-Disk mode.                   |
|   | Green, solid   | The AC Adapter is connected.  |
|  | Orange, solid  | The battery is being charged.   |
|  | Red, blinking  | Battery charging error  |
|  | Off            | AC Adapter is disconnected.   |
|  | Blue, solid,   | The system is turned on.  |
|  | Blue, blinking | The notebook is in sleep mode (Save-to-RAM).                          |
|  | Off            | The notebook is switched off or in Save-to-Disk mode.                 |



**Figure 7. Hybrid Tablet Display Panel**

## Display Panel

Your STYLISTIC Q702 Hybrid Tablet contains an LCD display panel that is backlit for easier viewing in bright environments. The slate design of your Hybrid Tablet allows you to easily hold the unit and rotate it 90°, 180°, or 270° in either direction. This display is used as a tablet, much as you would a pad of paper. The tablet can also be used in conjunction with the optional keypad dock to create a traditional notebook form.

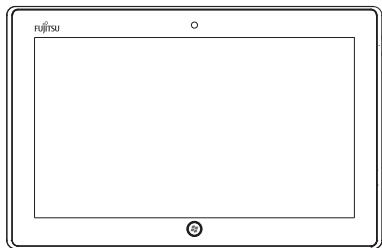
### Adjusting Display Panel Brightness

To adjust brightness with the power management utility:

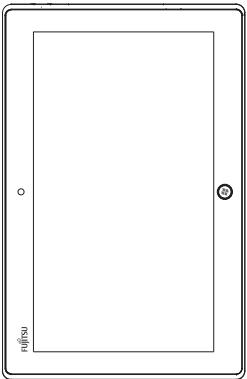
Click Start -> **Control Panel**. In **View by**: select one of the icon views. Select **Display**, then click **Adjust brightness** in the left pane. Under **Select a power plan**, select the plan settings you want to use. Drag **Screen brightness**: bar (at the bottom of the window) to the left or right, depending on your preference.

## Holding the Hybrid Tablet

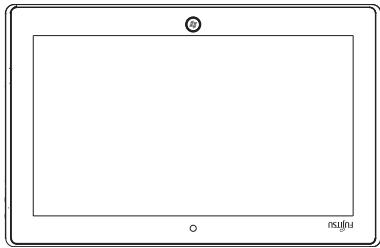
The STYLISTIC Q702 can be held in any of three orientations, depending upon how you would like to use it. There is primary landscape orientation (secondary landscape orientation is non-functional) and primary and secondary portrait orientations. (The orientation nomenclatures reflect those used in the button utility). When you rotate the system using the Rotation button, the order in which it rotates is illustrated below.



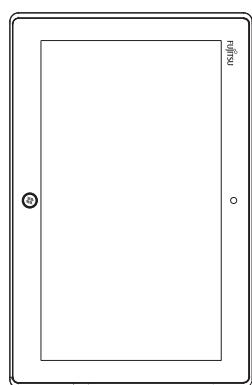
**Primary Landscape Orientation**



**Secondary Portrait Orientation**



**Secondary Landscape Orientation (Non-functional)**



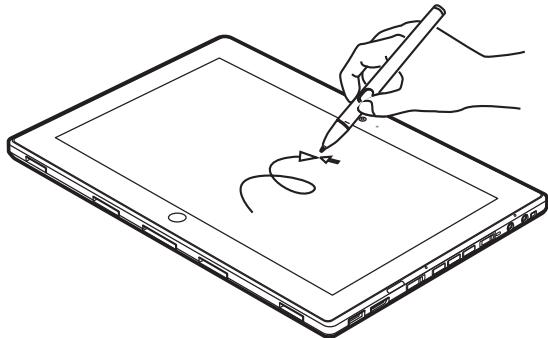
**Primary Portrait Orientation**

# Active Digitizer/Touchscreen

## Active Digitizer Display

The integrated active digitizer allows you to use the included stylus (also called a "pen") as a pointing device. **(For detailed information about caring for your stylus, go to "Caring for the Pen" on page 30.)**

You can use the stylus to click, double-click, drag items and icons, write text, or to draw like a pen or pencil in applications that support this behavior, such as drawing or painting programs. See the documentation that came with your application for details.



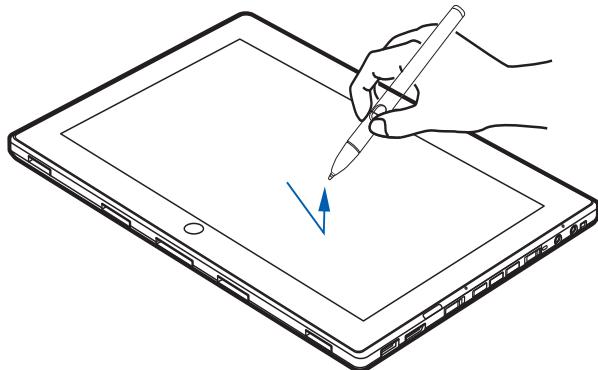
**Figure 8. Using the Active Digitizer Display**



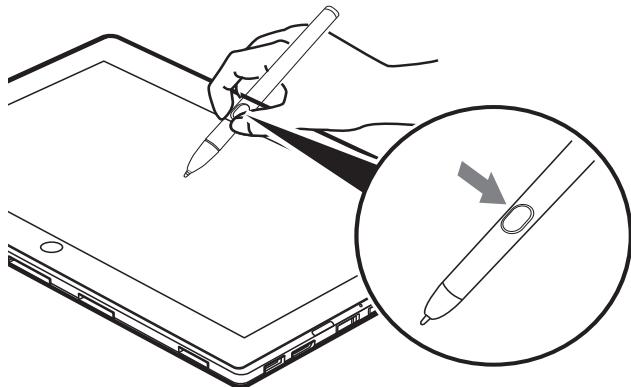
- **DO NOT USE EXCESSIVE FORCE** WHEN TAPPING OR WRITING ON THE SCREEN WITH THE STYLUS. EXCESSIVE FORCE COULD RESULT IN DAMAGE TO THE LED AND/OR ACTIVE DIGITIZER.
- TO PURCHASE ADDITIONAL OR REPLACEMENT STYLUSES, VISIT THE FUJITSU ACCESSORIES WEBSITE AT: [WWW.SHOPFUJITSU.COM](http://WWW.SHOPFUJITSU.COM).

## Clicking on Active Digitizer Display

To left-click, touch the object you wish to select and then lift the stylus tip immediately.



**Figure 9. Clicking on the Active Digitizer Display**



**Figure 10. Right-clicking Active Digitizer**  
**Right-Clicking on Active Digitizer**

Right-click can be accomplished by holding the front of the toggle button down while tapping on the screen. To change the settings for the right-click feature, go to Start -> Control Panel -> Pen and Touch. In the Pen Options tab, select "Press and Hold" then click the [Settings] button.

## Double-Clicking

To double-click, touch the item twice, and then immediately remove the stylus tip.

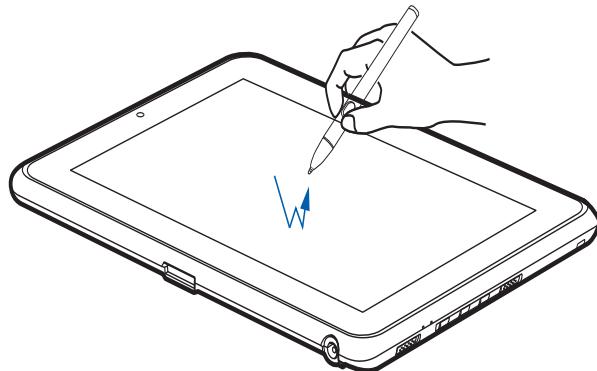


Figure 11. Double-clicking the Display

## Dragging

Dragging means moving an item with the stylus by touching the screen, moving and then lifting the stylus. To drag, touch the Active Digitizer Display with your stylus on the item you wish to move. While continuing to touch the screen with the stylus, drag the item to its new location by moving the stylus across the screen, and then lifting the stylus to release it.

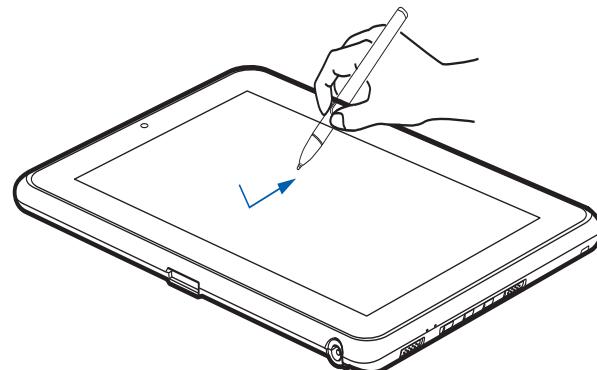


Figure 12. Dragging on the Display

## Calibrating the Display

In order to ensure accurate tracking between the stylus and cursor, you must run the Calibration Utility before you use the system for the first time, or after you change the display resolution.

To run the calibration utility:

- 1** Go to Start -> Control Panel.
- 2** Double-click the Tablet Settings icon and select the Display tab
- 3** Click the [Calibrate] button, then select whether you want to calibrate pen input or touch input.
- 4** Adjust the display of your Hybrid Tablet to a comfortable angle and find the (+) symbol in the upper-left corner of the display.



**DO NOT USE EXCESSIVE FORCE WHEN TAPPING ON THE SCREEN DURING CALIBRATION. USE OF EXCESSIVE FORCE COULD RESULT IN DAMAGE TO THE LED AND/OR TOUCH PANEL.**

- 5** Using the stylus or your finger (depending upon which type of input you are calibrating), firmly touch the screen directly on the (+) symbol. Lift the stylus from the screen and the target will move to a different location on the screen.
- 6** Repeat step 5 until you have selected all of the (+) symbols.
- 7** Once you have selected all the symbols, press the [OK] button.
- 8** Touch the stylus to various points on the screen to verify that the screen is correctly calibrated. If you are not satisfied with the screen's calibration, press the [Calibrate]) button to begin again.

## Using the Capacitive Touchscreen

Certain configurations of this Hybrid Tablet have an optional dual digitizer that allows you to use either the stylus or your finger(s) as a pointing device. This type of display also allows you to use "gestures" to perform such actions as scroll, zoom, and rotate.



- GESTURE SUPPORT IS DETERMINED BY THE APPLICATION IN USE.
- THE STYLUS TAKES PRECEDENCE OVER FINGER TOUCH. IF THE STYLUS IS WITHIN ACTIVE RANGE OF THE SCREEN, FINGER TOUCH WILL BE DISABLED.
- WHEN ONE FINGER IS USED ON THE TOUCHSCREEN, IT BEHAVES IN THE SAME MANNER AS A STYLUS.

### Right-clicking the touchscreen

To perform a right-click action using two fingers, press the first finger at the location you want to perform a right-click, then quickly tap and release the second finger on the screen.

### Gesture Mode

To initiate gesture mode, two fingers must touch the screen within 200 ms of each other. If the second finger touches the screen after 200 ms has elapsed, the second finger is ignored. If more than two fingers touch the screen in that time, Advanced Gesture Mode is activated instead. When Gesture Mode is activated, no cursor movement is sent to the system.

When both fingers are removed, Gesture mode ends. When a third finger is added, gesture mode ends and Advanced gesture mode is activated. Note that if a gesture can't be recognized, no action is taken. In that case, remove both fingers from the screen and try again.

### Scrolling Gesture

To scroll through long documents or on a web page, place both fingers on the screen (one finger quickly followed by the second). If at least one finger has moved at least 3 mm, a scroll is considered. If both fingers are moving in the same direction and parallel (given a tolerance of 5 mm), Scroll Mode is activated. If one finger is stationary, it is not considered a scroll. If either finger is lifted, Scroll Mode is canceled.

## **Zoom Gesture**

The zoom gesture is especially helpful when viewing pictures. To zoom in, place two fingers on the item you want to enlarge (one finger quickly followed by the second), then spread them away from each other.

If at least one finger has moved at least 10 mm, a zoom event is considered. If the distance between the fingers has changed by at least 10 mm, and both fingers have stayed on approximately the same line, Zoom Mode is entered. If either finger strays more than 10 mm from the "zoom line" created when the fingers first made contact, the zoom is canceled.

To zoom out, place two fingers on the item you want to reduce (one finger quickly followed by the second), then move them towards each other.

## **Rotate Gesture**

To change the orientation of an object on the screen, place two fingers on the image you want to rotate (one finger quickly followed by the second), then move them in opposite directions (as if you were turning a knob). The direction the item turns is dependant upon the direction you move your fingers.

If at least one finger moves at least 12 mm, a rotate is considered. If one finger is stationary (moving less than 5 mm in any direction), and the other is moving, a rotate is considered. If the fingers begin moving in the same direction, the rotation is canceled. If the distance between the fingers changes by more than 10 mm, the rotation is canceled.

## **Accessing the OnScreen TouchPad**

Your tablet has a handy on-screen touchpad that offers a variety of helpful functions. Features of the OnScreen TouchPad include:

- **Virtual Mouse Emulator:** The Virtual Mouse Emulator works in much the same manner as a hardware mouse. With the virtual mouse, you can scroll, drag, and click, as well as perform [Ctl]+[Click] and [Shift]+[Click] actions.
- **Application Launch/Key Macro:** This window provides access to five pages, each of which can contain up to twenty buttons. Each button can be programmed to open an application, a folder, document, or key (such as [Esc], [Alt+X] and [Page Up]).
- **Digital Keyboard:** This window provides a soft keyboard for use in mathematical procedures. It works in much the same way as the Windows standard calculator.

To access the OnScreen TouchPad, go to the Start Menu > All Programs > Fujitsu OnScreen TouchPad. To learn more about the utility, click on Usage and Help.

## Using the Nuance SoftKeyboard

For general information about using the Nuance SoftKeyboard, please refer to your Getting Started Guide that came with the system. If you have questions about the Nuance SoftKeyboard, or you would like to learn more, click the Help icon (it looks like a question mark) in the Nuance taskbar.

## Caring for the Pen

- ONLY USE THE PEN PROVIDED WITH YOUR HYBRID TABLET. DO NOT USE SUBSTITUTE PEN TIPS THAT WERE NOT SPECIALLY DESIGNED FOR YOUR TABLET. REPLACE THE STYLUS TIP IF IT IS WORN. THE WARRANTY DOES NOT COVER A SCRATCHED SCREEN.
- WHILE WRITING, DO NOT SCRATCH THE SURFACE OF THE DISPLAY (E.G., WITH A WRISTWATCH OR BRACELET).
- THE PEN OF YOUR HYBRID TABLET IS AN ELECTRONIC INSTRUMENT WHICH CAN BE DAMAGED IF USED INCORRECTLY. HANDLE THE PEN WITH CARE. THE FOLLOWING LIST CONTAINS GUIDELINES FOR PROPER PEN HANDLING:
- DO NOT GESTURE WITH THE PEN OR USE IT AS A POINTER.
- NEVER USE THE PEN ON ANY OTHER SURFACE THAN THE SCREEN OF YOUR HYBRID TABLET.
- DO NOT TRY TO TURN THE THUMB GRIP ON THE PEN.
- NEVER STORE THE PEN WITH THE TIP BEARING THE WEIGHT OF THE PEN. IF THE PEN IS STORED WITH THE TIP POINTING DOWN, THIS MAY HAVE AN ADVERSE EFFECT ON THE PEN MECHANISM (PARTICULARLY UNDER HIGH TEMPERATURES). IN THIS CASE THE PEN TIP MAY REACT AS THOUGH IT IS CONSTANTLY BEING PRESSED DOWN.
- THE PEN CAN BE INFLUENCED BY ELECTROMAGNETIC FIELDS (CURSOR QUIVERS OR JUMPS). THERE MAY BE A FEW AREAS ON THE SCREEN WHERE THE CURSOR QUIVERS SLIGHTLY IN SPITE OF PRESSING THE PEN DOWN FIRMLY.

## Changing the Pen Settings

There are a few changes you can make to your pen settings in order to make it more suitable to your needs (such as changing the pressure sensitivity). To do so, go to Start > Control Panel and select one of the icon views from the "View by:" dropdown. Click on the Pen and Touch icon to open the window from which you can change a variety of pen settings.



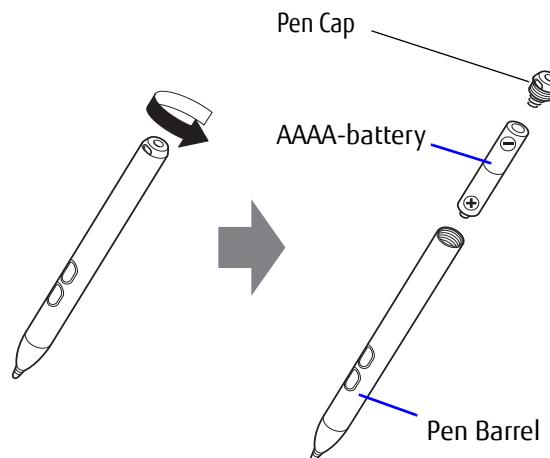
## Changing the Pen Battery



- **DO NOT REMOVE THE TIP OF THE PEN TO REPLACE THE BATTERY; REMOVE ONLY THE CAP ON THE TOP OF THE PEN.**
- THERE IS A RISK OF EXPLOSION IF THE BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES IN ACCORDANCE WITH LOCAL INSTRUCTIONS.

The pen contains a AAAA-battery. Before proceeding, be sure to have a new battery available.

- 1 Remove the rear Pen Cap (Figure 13).
- 2 Remove the battery from the pen barrel.
- 3 Insert the new battery into the pen barrel in the same orientation as the one that was removed.
- 4 Close the rear Pen Cap.



**Figure 13. Replacing the Battery**

## Replacing the Pen Tip

With use, the pen tip may become worn or may pick up foreign particles that can scratch the screen. A damaged or worn tip may not move freely, causing unpredictable results when using the pen. If a problem like this should occur, you should replace the pen tip.

- 1 Pull the tip from the barrel.
- 2 Using one of the new tips that were supplied with your pen, insert the pointed end of the tip into the barrel and push it in firmly until it is in place

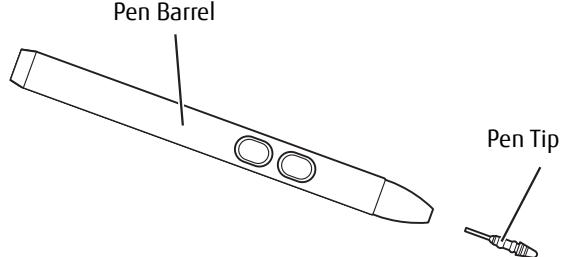


Figure 14. Replacing the Pen Tip

## Installing a Pen Tether

To prevent dropping or losing your pen, you should attach it to your system using the pen tether that is included with the system.

To attach the pen tether to your Hybrid Tablet, perform the following steps:

- 1 Attach the end of the pen tether with the smaller loop to your pen. To do so, push the end of the tether under the slot on the top of the pen, then thread the opposite end of the tether through the loop.
- 2 Attach the end of the pen tether with the larger loop to the attachment point on the right side of your tablet. To do so, insert the end of the pen tether through the attachment point, then feed the pen through the large loop in the tether.

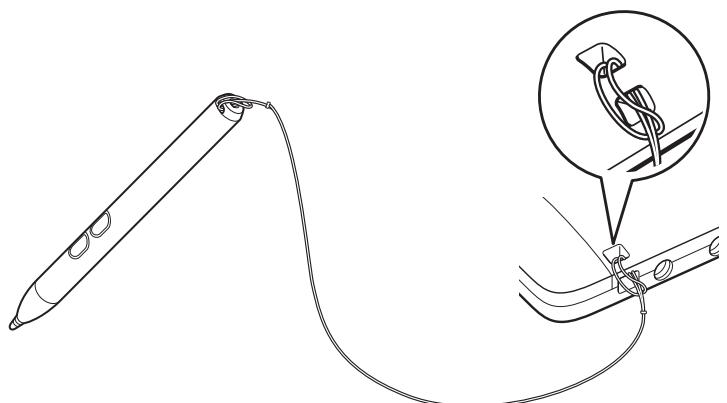


Figure 15. Installing a Pen Tether

## Hybrid Tablet Buttons

The three Tablet buttons are located on the right-hand side of a horizontally-oriented system.

The Windows button is located at the bottom center of the display.

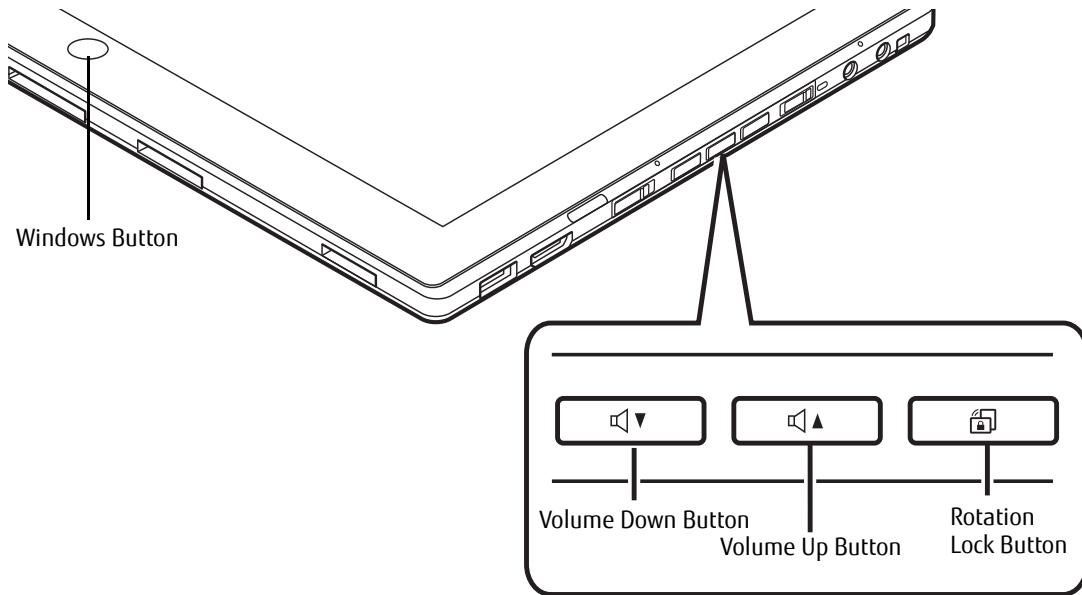


Figure 16. Application buttons

| Button Name        | Primary Function (Press) | Press at Splash Screen* | In BIOS Setup Utility                | Description   |
|--------------------|--------------------------|-------------------------|--------------------------------------|---|
| Volume Down Button | Volume Down              | Opens BIOS setup        | Acts as Down key while in BIOS Setup | Pressing the Volume Down button decreases the volume. While the system is starting up, it opens the BIOS Setup utility, and while the BIOS is open, it can be used to move the cursor down. |
| Volume Up Button   | Volume Up                | None                    | Acts as Up key while in BIOS Setup   | Pressing the Volume Up button increases the volume. When the BIOS is open, it can be used to move the cursor up.  |

| Button Name          | Primary Function (Press)              | Press at Splash Screen* | In BIOS Setup Utility | Description  |
|----------------------|---------------------------------------|-------------------------|-----------------------|--|
| Rotation Lock Button | Enables/disable Auto Rotation feature | Opens the Boot menu     | None                  | Pressing and holding the button enables and disables the Auto Rotate function. It also opens the Boot menu if pressed while the system is starting up.   |
| Windows Button       | Open Start menu/Ctrl+Alt+Del          | None                    | None                  | In post-logon, the Windows button can be used to perform two functions. When pressed alone, it opens up the Start menu. When pressed at the same time as the power button, it acts the same as if pressing [Ctrl] + [Alt] + [Del]. |

\* "Press at Splash Screen" refers to the action that occurs when you press the button when the Fujitsu logo appears when you first start up the system.

## Chapter 2

# Getting Started with Your Hybrid Tablet

### Power Sources

Your Fujitsu STYLIC Hybrid Tablet has three possible power sources: a primary Lithium Polymer battery, an AC adapter or an optional Auto/Airline adapter.

#### Connecting the Power Adapters

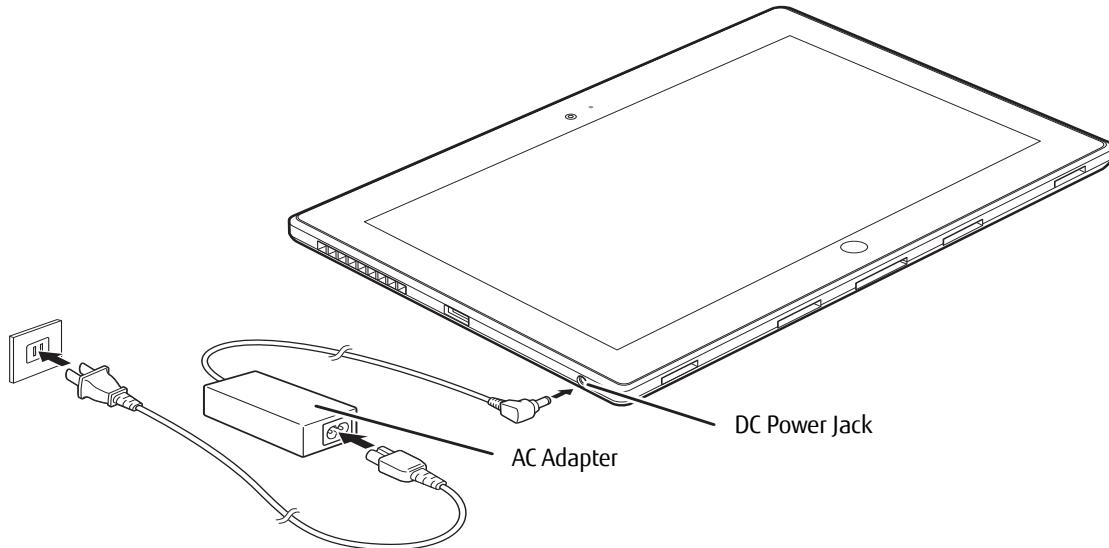
The AC adapter or optional Auto/Airline adapter provides power for operating your Hybrid Tablet and charging the batteries.

#### Connecting the AC Adapter

- 1 Plug the DC output cable into the DC power jack of your STYLIC Hybrid Tablet.
- 2 Plug the AC adapter into an AC electrical outlet.

#### Connecting the Optional Auto/Airline Adapter

- 1 Plug the DC output cable into the DC power jack on your Hybrid Tablet.
- 2 Plug the Auto/Airline adapter into the cigarette lighter of an automobile, or,
- 3 Plug the Auto/Airline adapter into the DC power jack on an airplane seat.



**Figure 17. Connecting the AC Adapter**

### **Switching from AC Adapter Power or the Auto/Airline Adapter to Battery Power**

- 1** Be sure that you have at least one charged battery installed.
- 2** Remove the AC adapter or the Auto/Airline adapter.



THE LITHIUM POLYMER BATTERY IS NOT CHARGED UPON PURCHASE. INITIALLY, YOU WILL NEED TO CONNECT EITHER THE AC ADAPTER OR THE AUTO/AIRLINE ADAPTER TO USE YOUR HYBRID TABLET.

# Starting Your STYLISTIC Hybrid Tablet

## Power On

### Power/Suspend/Resume Switch

The Power/Suspend/Resume switch is used to turn on your STYLISTIC Hybrid Tablet from its off state. Once you have connected your AC adapter or charged the internal Lithium Polymer battery, you can power on your tablet.



WHEN YOU TURN ON YOUR STYLISTIC HYBRID TABLET BE SURE YOU HAVE A POWER SOURCE. THIS MEANS THAT AT LEAST ONE BATTERY IS INSTALLED AND CHARGED, OR THAT THE AC OR AUTO/AIRLINE ADAPTER IS CONNECTED AND HAS POWER.

To turn on your STYLISTIC Hybrid Tablet from its off state, slide the Power/Suspend/Resume switch, located on the right side of the tablet (when the system is held horizontally). When you are done working you can either leave your Hybrid Tablet in Suspend mode or you can turn it off. See "Sleep Mode" on page 41 and "Powering Off" on page 43.

When you power on your STYLISTIC, it will perform a Power On Self Test (POST) to check the internal parts and configuration for correct functionality. If a fault is found, your STYLISTIC Hybrid Tablet will emit an audio warning and/or an error message will be displayed. See "Power On Self Test Messages" on page 60. Depending on the nature of the problem, you may be able to continue by starting the operating system or by entering the BIOS setup utility and revising the settings.

After satisfactory completion of the POST, your tablet will load your operating system.

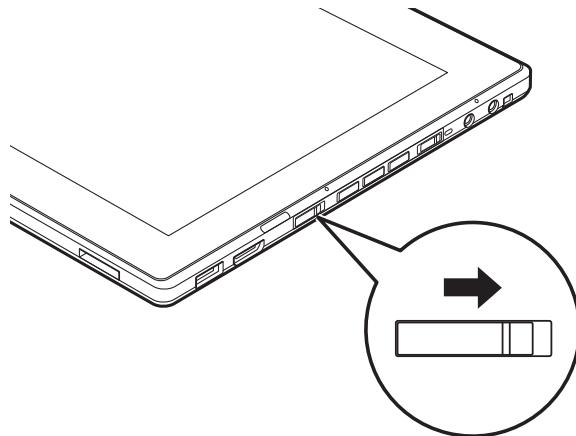


Figure 18. Power/Suspend/Resume Switch



NEVER TURN OFF YOUR STYLISTIC HYBRID TABLET DURING THE POWER ON SELF TEST (POST) OR IT WILL CAUSE AN ERROR MESSAGE TO BE DISPLAYED WHEN YOU TURN YOUR STYLISTIC HYBRID TABLET ON THE NEXT TIME. *See "Power On Self Test Messages" on page 60.*

## Boot Sequence

The procedure for starting-up your tablet is termed the Bootup sequence and involves your tablet's BIOS. When your tablet is first turned on, the main system memory is empty, and it needs to find instructions to start up your tablet. This information is in the BIOS program. Each time you power up or restart your tablet, it goes through a boot sequence which displays a Fujitsu logo until the operating system is found. During booting, your tablet is performing a standard boot sequence including a Power On Self Test (POST). When the boot sequence is completed without a failure and without a request for the BIOS Setup Utility, the system displays the operating system's opening screen.

The boot sequence is executed when:

- You turn on the power to your tablet.
- You restart your tablet from the Windows Shut Down dialog box.
- The software initiates a system restart; for example, when you install a new application.

## Hard Disk Drive Passwords

To provide additional security for your data, you can assign passwords to your hard disk drive(s). This feature is managed in the system BIOS Setup Utility. See *BIOS Setup Utility* below for information about accessing the utility.



**REMEMBER YOUR PASSWORDS.** IF YOU SET AND FORGET YOUR USER AND MASTER HARD DISK PASSWORDS, FUJITSU AMERICA WILL NOT BE ABLE TO RESET IT. YOU MAY LOSE DATA AND HAVE TO REPLACE YOUR SYSTEM BOARD OR HARD DISK DRIVE.

## BIOS Setup Utility

The BIOS Setup Utility sets up the operating environment for your tablet. Your BIOS is set at the factory for normal operating conditions, therefore there is no need to set or change the BIOS' environment to operate your tablet.

The BIOS Setup Utility also allows you to configure such features as the System Data Security feature parameters, such as passwords.

## Entering the BIOS Setup Utility

To enter the BIOS Setup Utility do the following:

- 1 Turn on or restart your tablet.
- 2 To enter the BIOS Setup Utility, press the [F2] key once the Fujitsu logo appears on the screen. This will open the main menu of the BIOS Setup Utility with the current settings displayed.

Press the right or left arrow keys key to scroll through the other setup menus to review or alter the current settings.

## BIOS Guide

A guide to your tablet's BIOS is available online at our service and support Website at:

<http://solutions.us.fujitsu.com/www/content/support/contact/index.php>. Once there, select User's Guides under Online Support. Select your Product, Series, and Model, then click [Go].



IF YOUR DATA SECURITY SETTINGS REQUIRE IT, YOU MAY BE ASKED FOR A PASSWORD BEFORE THE BIOS MAIN MENU WILL APPEAR.

## Booting the System

We strongly recommend that you not attach any external devices or put a DVD/CD in your drive until you have gone through the initial power on sequence.

When you turn on your tablet for the first time, it will display a Fujitsu logo on the screen. If you do nothing the system will load the operating system, and then the Windows Welcome will begin.

## Starting Windows the First Time

After you boot up the system the first time and follow the instructions on the screen, you will eventually come to the Welcome window. After the Welcome window appears, the screen will black out for **up to several minutes**. This is normal. **DO NOT ATTEMPT TO POWER DOWN THE SYSTEM AT THIS POINT**. While the screen is blacked out, your system configuration is being set up and the necessary files are being installed.

During the course of the first start up, you will need to read and accept the End User License Agreements (EULAs) for Microsoft and Fujitsu.



- IF YOU REJECT THE TERMS OF THE LICENSE AGREEMENT YOU WILL BE ASKED TO REVIEW THE LICENSE AGREEMENT FOR INFORMATION ON RETURNING WINDOWS OR TO SHUT DOWN YOUR TABLET.
- YOU CANNOT USE YOUR TABLET UNTIL YOU HAVE ACCEPTED THE LICENSE AGREEMENT. IF YOU STOP THE PROCESS YOUR TABLET WILL RETURN TO THE BEGINNING OF THE WINDOWS WELCOME PROCESS, EVEN IF YOU SHUT YOUR TABLET DOWN AND START IT UP AGAIN.

Several additional windows will appear, prompting you to enter a name and description for your computer, an Administrator password, and a domain name. Read the instructions on the screens carefully and fill in the information as directed.

### **Installing Bonus Apps**



After you have started your system the first time, you will see a Bonus Apps icon on your desktop. Click on the icon to see which additional applications are available for you to install. Applications that are already installed appear in grey; those that are available for installation appear in blue.

Select the applications you wish to install by selecting the checkbox adjacent to your selection, or click [Select All] if you would like to install all available applications. Once you have made your selections, click [Install].

Note that in some cases (depending upon which application was selected for installation) after installation completes, the system will prompt you to reboot. There are also cases in which if multiple applications are selected to install but one of them needs a reboot, the system will reboot and continue installing the rest of the selected applications.

### **Registering your Tablet with Fujitsu**

You can register your tablet by going to our website at: <https://store.shopfujitsu.com/fpc/Ecommerce/Service.jsp>. You will need to be set up with an Internet Service Provider (ISP) to register online.

# Power Management

Your Fujitsu STYLIC Hybrid Tablet has many options and features for conserving battery power. Some of these features are automatic and need no user intervention. However, others depend on the parameters you set to best suit your operating conditions, such as those for the display brightness. Internal power management for your Hybrid Tablet may be controlled from settings made in your operating system, pre-bundled power management application, or from settings made in BIOS setup utility.

Besides the options available for conserving battery power, there are also some things that you can do to prevent your battery from running down as quickly. For example, you can create an appropriate power saving profile, put your Hybrid Tablet into Sleep mode when it is not performing an operation, and you can limit the use of high power devices. As with all mobile, battery powered computers, there is a trade-off between performance and power savings.

## Power/Suspend/Resume Switch

When your Hybrid Tablet is active, the Power/Suspend/Resume switch can be used to manually put the Hybrid Tablet into Sleep mode. Slide the Power/Suspend/Resume switch when the Hybrid Tablet is active, but not actively accessing anything, and immediately release the button.

If your tablet is suspended, sliding the Power/Suspend/Resume switch returns it to active operation. You can tell whether the system is Suspended by looking at the Power indicator. If the indicator is visible and not flashing, your Hybrid Tablet is fully operational. If the indicator is visible *and* flashing, the tablet is in Sleep mode. If the indicator is not visible, the power is off or your tablet is in Hibernation mode.

## Sleep Mode

Sleep mode in Windows saves the contents of your system memory during periods of inactivity by maintaining power to critical parts. This mode turns off the CPU, display, hard drive, and all other internal components except those necessary to maintain system memory and for restarting.

Your Hybrid Tablet can be put in sleep mode by:

- Sliding the Power/Suspend/Resume switch when your system is turned on.
- Selecting “Sleep” after clicking [Start] then clicking the small arrow at the bottom right of the window.
- Timing out from lack of activity.
- Allowing the battery to reach the Dead Battery Warning condition.

Your Hybrid Tablet's system memory typically stores the file on which you are working, open application information, and any other data required to support operations in progress. When you resume operation from Sleep mode, your tablet will return to the point where it left off. You must use the Power/Suspend/Resume switch to resume operation, and there must be an adequate power source available, or your Hybrid Tablet will not resume.



- IF RUNNING YOUR TABLET ON BATTERY POWER, BE AWARE THAT THE BATTERY CONTINUES TO DISCHARGE WHILE YOUR TABLET IS IN SLEEP MODE, THOUGH NOT AS QUICKLY AS WHEN FULLY OPERATIONAL.
- DISABLING THE POWER/SUSPEND/RESUME SWITCH PREVENTS IT FROM BEING USED TO PUT THE TABLET INTO SLEEP OR HIBERNATION MODE. THE BUTTON RESUME FUNCTION CANNOT BE DISABLED.
- IF YOUR TABLET IS ACTIVELY ACCESSING INFORMATION WHEN YOU ENTER THE SLEEP OR HIBERNATION MODE, CHANGES TO OPEN FILES ARE NOT LOST. THE FILES ARE LEFT OPEN AND MEMORY IS KEPT ACTIVE DURING SLEEP MODE OR THE MEMORY IS TRANSFERRED TO THE INTERNAL HARD DRIVE DURING HIBERNATION MODE.
- THE MAIN ADVANTAGE OF USING HIBERNATION IS THAT POWER IS NOT REQUIRED TO MAINTAIN YOUR DATA. THIS IS PARTICULARLY IMPORTANT IF YOU WILL BE LEAVING YOUR TABLET IN A SUSPENDED STATE FOR A PROLONGED PERIOD OF TIME. THE DRAWBACK OF USING HIBERNATION MODE IS THAT IT LENGTHENS THE POWER DOWN AND POWER UP SEQUENCES AND RESETS PERIPHERAL DEVICES.

## Hibernation Feature

The Hibernation feature saves the contents of your Hybrid Tablet's system memory to the hard drive as a part of the Suspend/Resume mode. Hibernation is enabled by default.

## Defining Power Button Action

To determine what occurs when the power button is pressed, follow these steps:

- 1 From the Start menu, select Control Panel, then select the Power Options icon.
- 2 Select "Choose what the power button does", then make your selections (Do Nothing, Sleep, Hibernate, or Shut Down).

## Windows Power Management

The Power Options icon located in the Windows Control Panel allows you to configure some of the power management settings. For example, you can use the Power Options to set the timeout values for turning off the display and hard disks whether you are running the Hybrid Tablet on battery power or one of the adapters.

## Restarting the System

If your system is on and you need to restart it, be sure that you use the following procedure.

- 1 Click the [Start] button, and then move the mouse over the small arrow at the bottom right of the right-hand pane.
- 2 Select **Restart** from the list.



TURNING OFF YOUR STYLISTIC HYBRID TABLET WITHOUT EXITING WINDOWS OR TURNING ON YOUR HYBRID TABLET WITHIN 10 SECONDS OF THE SYSTEM BEING SHUT OFF MAY CAUSE AN ERROR WHEN YOU START THE NEXT TIME.

## Powering Off

If you turn off the power while accessing a disk there is a risk of data loss. To ensure that your Hybrid Tablet shuts down without error, use the Windows shut down procedure.



BE SURE TO CLOSE ALL FILES, EXIT ALL APPLICATIONS, AND SHUT DOWN YOUR OPERATING SYSTEM PRIOR TO TURNING OFF THE POWER. IF FILES ARE OPEN WHEN YOU TURN THE POWER OFF, YOU WILL LOSE ANY CHANGES THAT HAVE NOT BEEN SAVED, AND MAY CAUSE DISK ERRORS.

Using the correct procedure to shut down from Windows allows your Hybrid Tablet to complete its operations and turn off power in the proper sequence to avoid errors. The proper sequence is:

- 1 Click the [Start] button, and then move the mouse over the small arrow at the bottom right of the right-hand pane.
- 2 Select **Shut Down** from the list.

If you are going to store your Hybrid Tablet for a month or more, see Care and Maintenance Section on page page 70.

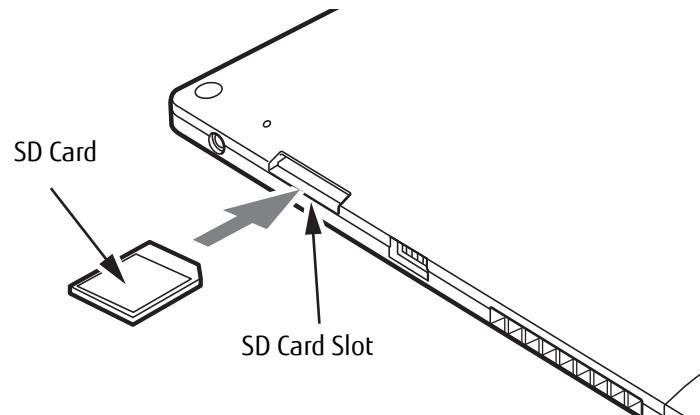
## Chapter 3

# User-Installable Features

### Secure Digital Cards

Your STYLUSC Hybrid Tablet supports Secure Digital (SD) cards, on which you can store and transfer data to and from a variety of digital devices. These cards use flash memory architecture, which means they don't need a power source to retain data. Note that SD and SDHC Cards are supported, but SDXC Cards are not.

SD Cards allow portable storage among a variety of devices, such as cell phones, GPS systems, digital cameras, and PDAs. SD Cards transfer data quickly, with low battery consumption.



**Figure 19. SD Card Slot - Rear Access**

## Installing SD Cards

When holding the Hybrid Tablet in horizontal position with the bottom side up and the fingerprint sensor at the bottom left, the SD Card slot is located near the DC port on the left side of the system (Figure 19). To install an SD Card, follow these steps:



INSTALLING OR REMOVING AN SD CARD DURING YOUR STYLISTIC HYBRID TABLET'S SHUTDOWN OR BOOTUP PROCESS MAY DAMAGE THE CARD AND/OR YOUR STYLISTIC HYBRID TABLET.

DO NOT INSERT A CARD INTO A SLOT IF THERE IS WATER OR ANY OTHER SUBSTANCE ON THE CARD AS YOU MAY PERMANENTLY DAMAGE THE CARD, YOUR STYLISTIC HYBRID TABLET, OR BOTH.

- 1 See your specific card manual for instructions on the installation of your card. Some cards may require that your Hybrid Tablet is off while installing them.
- 2 Make sure there is no card currently in the slot. If there is, see Removing an SD Card.
- 3 With the product label facing in the same direction as the display screen, insert your card into the slot.
- 4 Push the card firmly into the slot until it is seated in the connector.

## Removing an SD Card

To remove an SD Card, follow these easy steps:



SEE YOUR CARD MANUAL FOR SPECIFIC INSTRUCTIONS ON THE REMOVAL OF YOUR CARD. SOME CARDS MAY REQUIRE YOUR STYLISTIC HYBRID TABLET TO BE IN SLEEP MODE OR OFF WHILE REMOVING THEM.

- 1 Select Safely Remove Hardware from the System Tray. Highlight the card in the list, then click [Stop].
- 2 Push the SD Card in until it unlatches. It will then eject from the slot for removal.

## Keyboard Docking Station

The optional keyboard docking station extends the functionality of your STYLISTIC® Tablet and turns it into a truly "hybrid" system by providing a keyboard, touchpad, rechargeable and removable battery, status LEDs, two USB 2.0 ports, a LAN port, external monitor port, and DC power.

The docking station connects to the bottom edge of your STYLISTIC Hybrid Tablet, and folds up to create a protective cover over the display.

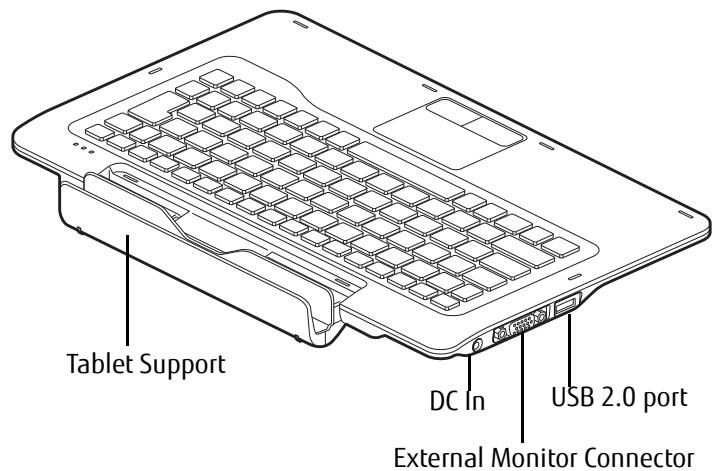


Figure 20. Docking Station - Rear

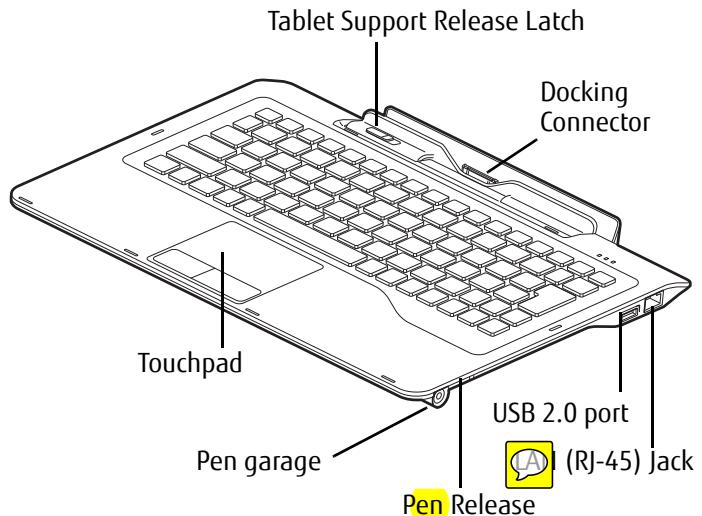


Figure 21. Docking Station - Front

## Docking Station Components

The following is a brief description of the docking station's panel components. (Figures 20 and 21).

### Tablet Support Release Latch

The tablet support on the back of the docking station acts as a support when it is open so that you can use the tablet in a hands-free vertical position and close it as a traditional notebook. To release the panel from the back of the docking station, slide the latch to the ~~left~~<sup>right</sup>. To attach it to the docking station, set the tablet into the tablet support, then snap the two together.

### USB 2.0 Ports (Qty. 2)

Universal Serial Bus (USB) 2.0 ports allow you to connect USB devices. USB 2.0 ports are backward-compatible with USB 1.1 devices. There are two USB ports on the docking station: one on the left side and one on the right side.

### DC Power Jack

The DC power jack allows you to plug in the AC adapter to power your Hybrid Tablet and charge the internal battery.

### LAN (RJ-45) Jack

The internal LAN (RJ-45) jack is used for an internal LAN connection.

### External Monitor Connector

The external monitor connector allows you to connect an external monitor or LCD projector.

### Docking Connector

The docking connector allows you to connect the Docking Station to your STYLISTIC Hybrid Tablet.



THE SYSTEM CONTAINS COMPONENTS THAT CAN BE SEVERELY DAMAGED BY ELECTROSTATIC DISCHARGE (ESD). TO MINIMIZE RISK TO THE COMPONENTS, OBSERVE THE FOLLOWING PRECAUTIONS:

- BEFORE DOCKING OR UNDOCKING YOUR STYLISTIC WHEN USING A DOCKING STATION, YOU SHOULD TOUCH A GROUNDED METAL OBJECT TO DISCHARGE STATIC ELECTRICITY BUILT UP IN YOUR BODY.



### Touchpad Pointing Device

The Touchpad pointing device is a mouse-like cursor control with two buttons (left and right).

## Pen Garage



The pen garage is used to store the pen when it is not in use. This helps you keep track of the pen so it is not misplaced or lost. ~~The pen garage sits directly below the pen tether attachment point when the system is closed while in notebook configuration.~~

## Pen Release



The pen release is used to eject the pen from the pen garage. Slide the pen release to the left when the pen is in the garage; doing so will cause the pen to pop out of the garage.

## Attaching the Docking Station

To attach the Docking Station, align the docking connector on the bottom of your Hybrid Tablet with the connector on the Docking Station and push the corners down simultaneously. (Figure 22)

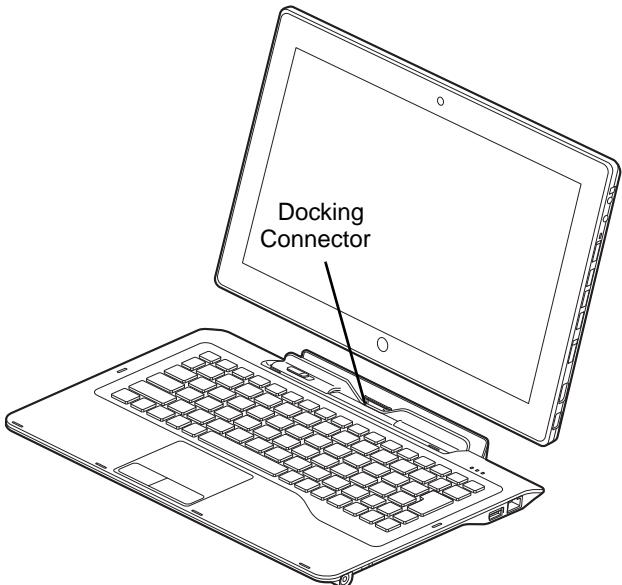


Figure 22. Attaching the Docking Station

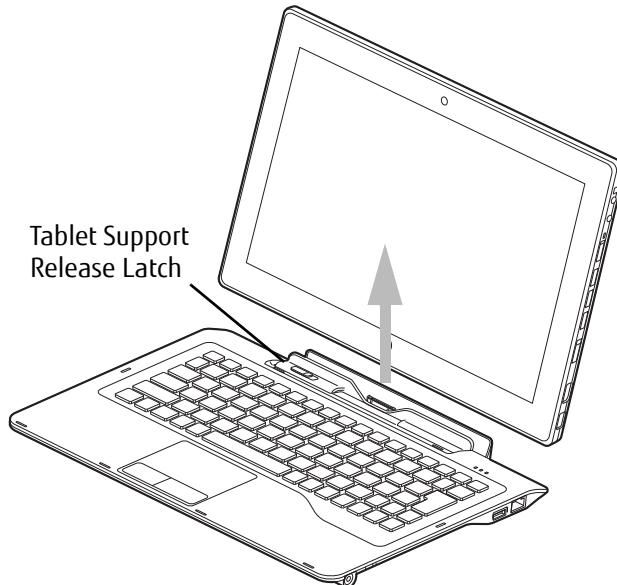


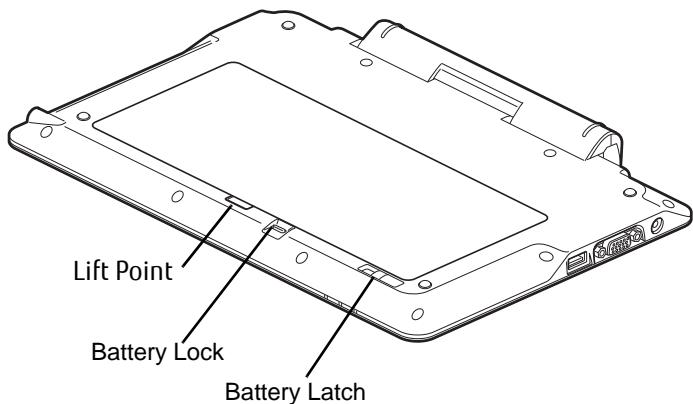
Figure 23. Detaching the Docking Station

## Detaching Docking Station

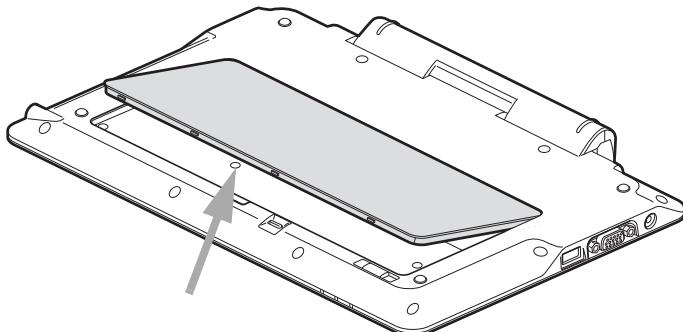
To detach the Docking Station, slide the tablet support release latch to the [right](#) and lift the Hybrid Tablet away from the Docking Station to detach it. (Figure 23)

## Changing the Battery

The keyboard docking station is equipped with a rechargeable, removable battery. The battery can be charged by connecting the AC Adapter to the DC In port on the left side of the docking station (Figure 20).



**Figure 24. Docking Station - Bottom**



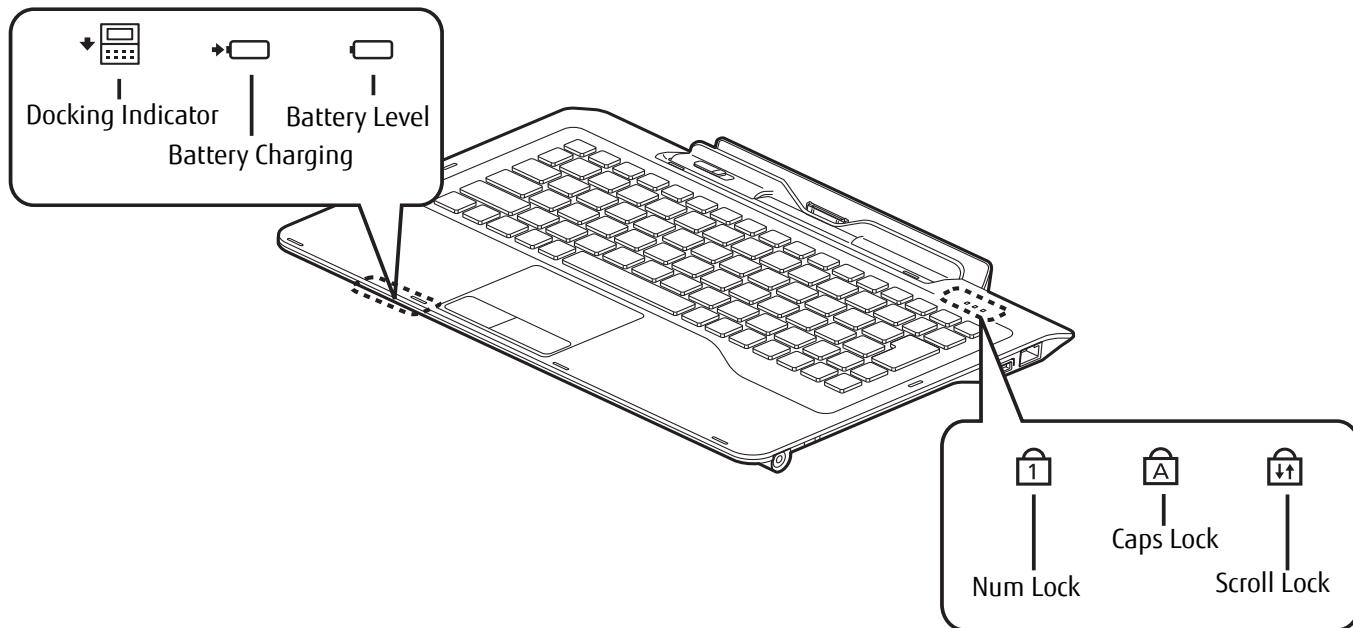
**Figure 25. Removing the Battery**

To remove the battery for replacement with a new battery or when storing the docking station for a long period of time, perform the following steps (Figure 25):

- 1 Turn the docking station upside down.
- 2 While pushing the battery lock, slide the battery latch to release the battery.
- 3 Lift the battery at the lift point and remove it from the battery bay.

## Docking Station Status Indicators

There are two sets of status indicators on the docking status, one on the left front edge and one on the left back corner.



**Figure 26. Docking Station Status Indicators**

### Docking Indicator

The docking indicator lights when the tablet is properly seated in the tablet support.

### Battery Charge Indicator

The battery charge indicator shows the charging status of the keyboard dock battery. (See Table 1 on page 21 for equivalent system indicator states).

## **Battery Level Indicator**

The Battery Level indicator displays the charge level of the keyboard dock battery pack. (See Table 1 on page 21 for equivalent system indicator states).

## **NumLk Indicator**

The NumLk indicator shows that the integral keyboard is set in ten-key numeric keypad mode.

## **CapsLock Indicator**

The CapsLock indicator shows that your keyboard is set to type in all capital letters.

## **Scrlk Indicator**

The Scrlk indicator shows that your scroll lock is active.

## Chapter 4

# Troubleshooting Your Hybrid Tablet

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## Troubleshooting

There may be occasions when you encounter simple setup or operating problems that you can solve on the spot, or problems with peripheral devices that can be solved by replacing the device. The information in this section helps you isolate and resolve some of these straightforward issues and identify failures that require service.

### Identifying the Problem

If you encounter a problem, go through the following procedure before pursuing complex troubleshooting:

- 1 Turn off your STYLISTIC Hybrid Tablet.
- 2 Make sure the AC adapter is plugged into your Hybrid Tablet and to an active AC power source.
- 3 Make sure that any cards installed are seated properly. If it appears that there is a problem with a card, remove the card from the slot, thus eliminating it as a possible cause of failure.
- 4 Make sure that any devices connected to the external connectors are plugged in properly. You can also disconnect such devices, thus eliminating them as possible causes of failure.
- 5 Turn on your Hybrid Tablet. Make sure it has been off at least 10 seconds before you turn it back on.
- 6 Go through the boot sequence.
- 7 If the problem has not been resolved, refer to the Troubleshooting Table that follows for more detailed troubleshooting information.



IF YOU KEEP NOTES ABOUT WHAT YOU HAVE TRIED, YOUR SUPPORT REPRESENTATIVE MAY BE ABLE TO HELP YOU MORE QUICKLY BY GIVING ADDITIONAL SUGGESTIONS OVER THE PHONE.

- 8** If you have tried the solutions suggested in the Troubleshooting Table without success, contact your support representative:

Toll free: 1-800-8FUJITSU (1-800-838-5487)

Web site: <http://solutions.us.fujitsu.com/www/content/support/contact/index.php>.

Before you place the call, you should have the following information ready so that the customer support representative can provide you with the fastest possible solution:

- Product name
- Product configuration number
- Product serial number
- Purchase date
- Conditions under which the problem occurred
- Any error messages that have occurred
- Type of device connected, if any

See the Configuration Label on the bottom of your Hybrid Tablet for configuration and serial numbers.

## Specific Problems

### Using the Troubleshooting Table

When you have problems with your Hybrid Tablet, try to find the symptoms under the Problem column of the troubleshooting table for the feature giving you difficulty. You will find a description of common causes for that symptom under the column Possible Cause and what, if anything, you can do to correct the condition under Possible Solutions. All possible causes or solutions may not apply to your Hybrid Tablet.

### Troubleshooting Table

|                                 |         |                                     |         |
|---------------------------------|---------|-------------------------------------|---------|
| Audio Problems.....             | page 55 | Power Failures.....                 | page 56 |
| Hard Drive Problems.....        | page 55 | Shutdown and Startup Problems ..... | page 58 |
| Keyboard or Mouse Problems..... | page 55 | Video Problems.....                 | page 59 |
| Pen Input Problems .....        | page 55 | Miscellaneous Problems.....         | page 59 |
| USB Device Problems .....       | page 56 |                                     |         |

| Problem  | Possible Cause  | Possible Solutions   |
|--|---|--|
| <b>Audio Problems</b>  |   |  |
| There is no sound coming from the built-in speaker.  | The volume is turned too low.   | Adjust the volume control on your Hybrid Tablet and operating system. Click the Volume icon in the system tray on the bottom right of the screen. (It looks like a speaker). If the Mute box has a red circle on it, click on it to deselect it. |
|  | Headphones are plugged into your tablet.  | Plugging in headphones disables the built-in speaker. Remove the headphones.   |
| <b>Hard Drive Problems</b>   |   |  |
| You cannot access your hard drive.   | The wrong drive designator was used by an application when a bootable disc was used to start the Hybrid Tablet. | Verify drive designator used by application is in use by the operating system. When the operating system is booted from a CD, drive designations are automatically adjusted.   |
|  | Security is set so your operating system cannot be started without a password.                                  | Verify your password and security settings.  |
| <b>Keyboard or Mouse Problems</b>  |   |  |
| You have installed an optional external keyboard or mouse, and it does not seem to work.     | Your external device is not properly installed.   | Re-install your device. <i>See "Device Ports" on page 82.</i>  |
|  | Your operating system is not set up with correct software driver for that device.                               | Check your device and operating system documentation and activate the proper driver.   |
| You have connected an external keyboard or a mouse and it seems to be locking up the system. | Your operating system is not setup with correct driver.   | Check your device and operating system documentation and activate the proper driver.   |
|  | Your system has crashed.  | Try to restart your Hybrid Tablet.   |
| <b>Pen Input Problems</b>  |   |  |
| Cursor is not tracking the pen.  | Display needs to be calibrated  | See "Calibrating the Display" on page 27. for more information.  |

| Problem  | Possible Cause  | Possible Solutions  |
|--|---|---|
| Tablet is not responding to the pen  | System may have crashed.  | If the Hybrid Tablet does not respond to the pen, connect an external keyboard to the system to see if it responds to keyboard commands. If the system doesn't respond to a keyboard, the application or system may have crashed, and it may be necessary to reboot the system. If the system responds to a keyboard but not to a pen, contact your local help desk or reseller, or call Fujitsu Service and Support at 1-800-8Fujitsu (1-800-838-5487) for further assistance. |
| <b>Memory Problems</b>   |   |   |
| Your System screen in the Control Panel doesn't show correct amount of memory.                 | You have a memory failure.  | Check for Power On Self Test (POST) messages. See "Power On Self Test Messages" on page 60.   |
| <b>USB Device Problems</b>   |   |   |
| Your system doesn't recognize a USB device you installed, or the device doesn't work properly. | The device is not properly installed.   | Remove and re-install the device.   |
|  | The device may have been installed while an application was running, so your system is not aware of its installation. | Close the application and restart your Hybrid Tablet.   |
|  | Your device may not have the correct software driver active.  | See your software documentation and activate the correct driver.  |
| <b>Power Failures</b>  |   |   |
| You turn on your Hybrid Tablet and nothing seems to happen.                                    | The installed battery is completely discharged or there is no power adapter installed.                                | Check the Status Indicator Panel to determine the presence and condition of the battery. See "Status Indicator Panel" on page 20. Install a charged battery or a Power adapter.   |
|  | The battery is installed but is faulty or very low.   | When the battery reaches a critically low level, the system is forced into Sleep mode to avoid a total system power failure. To correct this problem, either connect an external power supply (such as the AC adapter), or install a charged battery in the tablet.   |
|  | System is at a critical thermal limit.  | To avoid damage to heat-sensitive components, the system enters sleep mode when it gets too hot. System operation cannot be resumed until the Hybrid Tablet cools off to a tolerable temperature. Move the Hybrid Tablet to a cooler location.  |

| Problem  | Possible Cause  | Possible Solutions  |
|--|---|---|
| You turn on your Hybrid Tablet and nothing seems to happen.<br>(continued) | AC power adapter is not plugged in properly.  | Verify that your adapter is connected correctly. <i>See "Power Sources" on page 35.</i>   |
|  | The power adapter has no power from the AC or airline outlet.   | Move the AC cord to a different outlet, or check for a line switch or tripped circuit breaker. If you are using an auto/airline adapter in a car be sure the ignition switch is in the On or Accessories position.  |
|  | The power adapter is faulty.  | Try a different power adapter.  |
| Your STYLIC Hybrid Tablet turns off all by itself.                         | The power management parameters are set for auto timeouts which are too short for your operating needs. | Move the mouse to restore operation. If that fails, push Power/Suspend/Resume switch. Check your power management settings, or close your applications and go to Power Options located in the Control Panel to adjust timeouts to better suit your needs. |
|  | Your power adapter has failed or lost its power source.   | Make sure the adapter is plugged in and the outlet has power.   |
|  | You ignored a low battery alarm until the battery entered Dead Battery Suspend mode.                    | Install a power adapter, then push the Power/Suspend/Resume switch. <i>See "Power Sources" on page 35.</i>  |
|  | You have a battery failure.   | Verify the condition of the battery using the Status Indicator panel. If the battery is shorted, replace or remove it. <i>See "Status Indicator Panel" on page 20.</i>  |
| Your Hybrid Tablet will not work on battery alone.                         | The installed battery is dead.  | Replace the battery with a charged one or use an adapter.   |
|  | No battery is installed.  | Install a charged battery.  |
|  | Battery is improperly installed.  | Verify that the battery is properly connected by re-installing it.  |
|  | Your installed battery is faulty.   | Verify the condition of the battery using the Status Indicator panel and replace or remove any batteries that are shorted. <i>See "Status Indicator Panel" on page 20.</i>  |
| The battery seems to discharge too quickly.                                | The power savings features may be disabled.   | Check the Power Options menu settings and adjust according to your operating needs.   |
|  | The brightness is turned all the way up.  | Turn down the brightness adjustment. The higher the brightness the more power your display uses.  |

| Problem   | Possible Cause   | Possible Solutions  |
|---|--|---|
| The battery seems to discharge too quickly.<br>(continued)                                      | You're running an application that uses a lot of power due to frequent drive access, or use of wireless devices. | Use a power adapter for this application when at all possible.  |
|   | The battery is too hot or too cold.  | Restore the Hybrid Tablet to normal operating temperature. Charging icon on the Status Indicator panel will flash when battery is outside of operating range.   |
| <b>Shutdown and Startup Problems</b>  |  |   |
| The Suspend/Resume switch does not work.  | Suspend/Resume switch is disabled.   | To enable the button, go to Control Panel -> Power Options and click on the Advanced tab. In the Power buttons area, select the "Change what the power button does" option.   |
|   | There may be application software. conflict  | Close all applications and try the button again.  |
| The system powers up and displays power on information, but fails to load the operating system. | You have a secured system requiring a password to load your operating system.                                    | Make sure you have the right password. Enter the setup utility and verify the Security settings and modify them as accordingly. <i>See "BIOS Setup Utility" on page 38.</i>   |
|   | The boot sequence settings of the setup utility are not compatible with your configuration.                      | Set the operating source by pressing the [F12] key while the Fujitsu logo is on screen or use the [F2] key and enter the setup utility and adjust the source settings from the Boot menu. <i>See "BIOS Setup Utility" on page 38.</i> |
|   | Hard drive was not detected.   | Use BIOS setup utility to auto detect the internal hard drive.  |
| An error message is displayed on the screen during the boot sequence.                           | Power On Self Test (POST) has detected a problem.  | See the Power On Self Test (POST) messages to determine the meaning and severity of the problem. Not all messages are errors; some are simply status indicators. <i>See "Power On Self Test Messages" on page 60.</i>                 |
| Your Hybrid Tablet appears to change setup parameters when you start it.                        | BIOS setup changes were not saved when made and you exited the setup utility.                                    | Make sure you select <b>Save Changes And Exit</b> when exiting the BIOS setup utility.  |

| Problem  | Possible Cause   | Possible Solutions  |
|--|--|---|
| <b>Video Problems</b>  |  |   |
| The display is blank when you turn on your Hybrid Tablet.                    | Power management timeouts are set for short intervals and you didn't see the display go on and off again.            | Move the mouse to restore operation. If that fails, push the Power/Suspend/Resume switch. (The display may be shut off by Sleep mode, Auto Suspend or Video Timeout)  |
| The Hybrid Tablet turned on with a series of beeps and the display is blank. | Power On Self Test detected a failure which does not allow the display to operate.                                   | Contact your support representative.  |
| The display goes blank by itself after you have been using it.               | Power management timeouts are set for short intervals and you failed to notice the display come on and go off again. | Push the Power/Suspend/Resume switch. (The display may be shut off by Sleep Mode, Auto Suspend or Video Timeout)  |
|  | The Hybrid Tablet has gone into Sleep or Hibernate mode because you have not used it for a period of time.           | Push Power/Suspend/Resume switch. Check power management settings, or close applications and go to the Power Savings menu of the setup utility to adjust timeout values to suit your needs. <i>See "BIOS Setup Utility" on page 38.</i> |
| The display has bright or dark spots.  | If the spots are very tiny and few in number, this is normal for a large LCD display.                                | This is normal; do nothing.   |
|  | If the spots are numerous or large enough to interfere with your operation needs.                                    | Display is faulty; contact your support representative.   |
| <b>Miscellaneous Problems</b>  |  |   |
| Error message displayed on the screen during operation of an application.    | Application software often has its own set of error message displays.  | See your application manual and help displays screens for more information. Not all messages are errors some may simply be status.  |

## **Power On Self Test Messages**

The following is a list of error-and-status messages that the Phoenix BIOS and/or your operating system can generate and an explanation of each message. Error messages are marked with an \*. If an error message is displayed that is not in this list, write it down and check the operating system documentation on screen and in the manual. If you can find no reference to the message, contact a support representative.

### **\*Invalid NVRAM Data**

Problem with NVRAM access. In the unlikely case that you see this message you may have a display problem. You can continue operating but should contact your support representative for more information.

### **\*Operating system not found**

Operating system cannot be located on either drive A: or drive C: Enter the setup utility and see if both the fixed disk, and drive A: are properly identified and that the boot sequence is set correctly. Unless you have changed your installation greatly, the operating system should be on drive C:. If the setup utility is correctly set, your hard drive may be corrupted.

### **\*Real time clock error - Check date and time settings**

Real-time clock fails BIOS test. May require board repair. Contact your support representative.

# Restoring Your System Image and Software

It is very important that you create DVD copies of your Factory Image and Bootable Disc (along with other applicable media such as application discs) before beginning to use your system. To do so, follow the instructions in the "Saving Your Factory Image" and "Creating Backup Images of Factory Image and Discs" sections of this chapter.

## Saving and Recovering Your Factory and System Images

Along with instructions on saving your Factory Image, this document outlines several other important procedures, such as making a system image, restoring your Factory Image and system images, managing your images, and restoring the partitions on a hard drive.

- IN ORDER TO INSTALL APPLICATIONS, MAKE COPIES OF FACTORY AND SYSTEM IMAGES, AND BURN APPLICATION MEDIA AND BOOTABLE DISCS **YOU MUST HAVE AN EXTERNALLY CONNECTED WRITABLE DVD DRIVE.**
- IT IS EXTREMELY IMPORTANT THAT YOU COPY YOUR FACTORY IMAGE TO REMOVABLE MEDIA (E.G., DVD DISCS). FAILURE TO DO SO COULD RESULT IN AN INABILITY TO RESTORE THE IMAGE AT A FUTURE DATE.
- WE RECOMMEND THAT YOU USE DVD-R OR DVD+R DISCS FOR YOUR BACKUP, BUT SUPPORTED MEDIA\* FOR IMAGE BACKUPS INCLUDE: FOR FACTORY IMAGE, APPLICATION DATA, AND BOOTABLE DISC: DVD-R/+R.  
FOR USER-CREATED BACKUP IMAGE: DVD-R/+R, DVD-RW/+RW, DVD-DL.

\* DEPENDING UPON YOUR OPTICAL DRIVE AND MEDIA FORMAT USED, SOME MEDIA TYPES MAY BE INCOMPATIBLE FOR CREATING IMAGE BACKUPS.



DUE TO CERTAIN LICENSING REQUIREMENTS, SOME THIRD-PARTY APPLICATIONS WILL NEED TO BE INSTALLED SEPARATELY USING THE APPLICATION MEDIA BUNDLED WITH YOUR SYSTEM.

## Saving your Factory Image

When you purchased your new system, a copy of the pre-installed Factory Image was loaded into a hidden partition on your hard disk drive. Having a copy of the original Factory Image available to you means that in the event of system failure, you will be able to restore it to its original state.

To make a copy of the Factory Image to DVD discs, you will need several blank discs (DVD-R or DVD+R discs are recommended) to create the copy. After creating the copy, be sure to label the discs and keep them in a safe place to ensure they do not get damaged.

## Creating Backup Images of Factory Image and Discs



- SOME CONFIGURATIONS OF CERTAIN MODELS DO NOT HAVE APPLICATIONS LOADED ON THE HARD DRIVE; RATHER, THEY ARE AVAILABLE AT THE FUJITSU SUPPORT SITE FOR DOWNLOAD. PLEASE TAKE THAT INTO ACCOUNT WHEN READING THE FOLLOWING PROCEDURES.
- ALL USER-CREATED DATA WILL BE DELETED FROM YOUR SYSTEM WHEN THE FACTORY IMAGE IS RESTORED.

Using the [Manage/Change] button, you can create backup images of the Factory Image, Application Disc(s), or Bootable Disc.

- 1 Launch My Recovery from desktop icon
- 2 Select [Manage/Create]-> [Manage Backup Images].  
The Backup Images menu displays a list from which you can choose which type of disc you want to burn: Bootable Disc, Application Discs, or Recovery Disc.
- 3 Select *Recovery Disc*, then click [Make DVD].
- 4 Confirm that the # box has "2" (Note that in some cases the box may display a larger number for the factory image, depending upon its size.)
- 5 The message "Recovery Disc #1 will be created. Enter your comments and the number of media on the DVD". Click [YES] to burn the Factory Image.
- 6 While the copy is being made, a "Writing to the media screen displays a progress bar. When the copy is complete, a dialog will appear informing you of the successful completion of the backup.
- 7 Repeat the process for the remaining images on disc (Bootable Disc and Application Discs). The number of images available may vary depending on your system model; some models do not have the applications loaded on the hard drive.

## Recovering Your Factory Image

In the event you need to restore your original Factory Image, perform the following steps. Note that there may be some third-party applications that need to be installed from the application media bundled with your system.



**ALL USER-CREATED DATA WILL BE DELETED FROM YOUR SYSTEM WHEN THE FACTORY IMAGE IS RESTORED.**

In order to recover your Factory Image, perform the steps outlined in "Running Recovery and Utility from hard disk".

### Backing Up a System Image

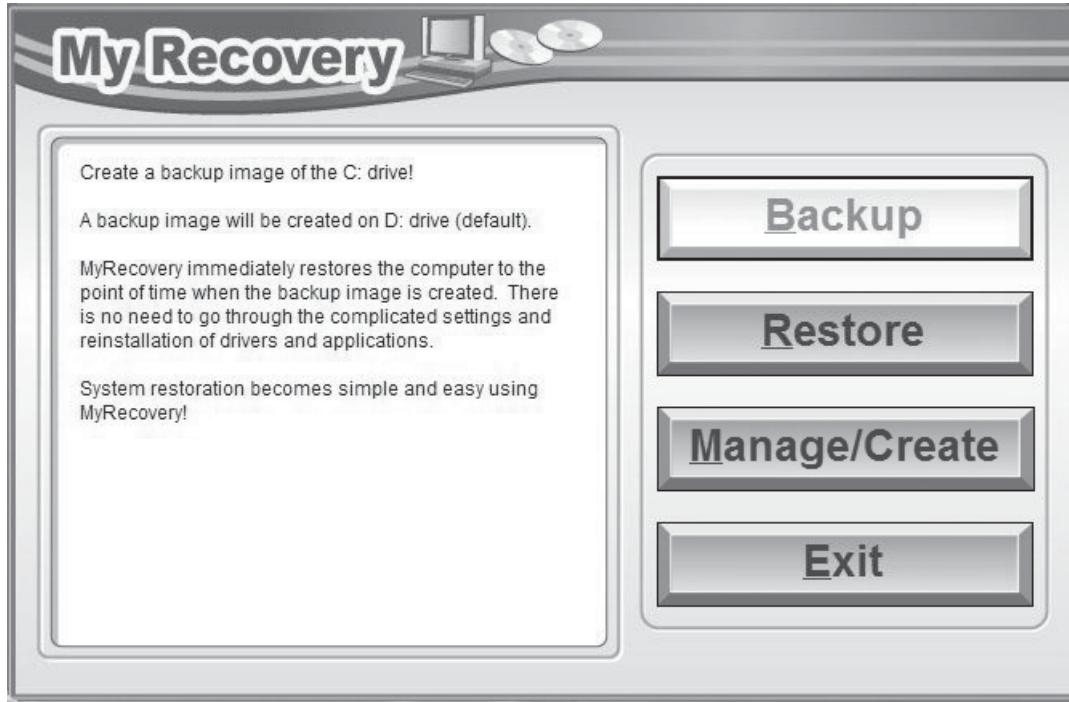
**Optional Step:** Launch the Fujitsu Bonus Apps utility from your desktop, and select the components you wish to install.

**User-Configured System Backups:** On your desktop, there is a **[MyRecovery]** icon that allows you to make backups of your current system image either to another location on your hard drive or on removable media. A system image is the configuration of your C: drive at a particular point of time. You may want to make system image backups occasionally in order to have points to which you can return without having to go all the way back to the Factory Image.



By default, system images are saved in the MyRecovery folder (either on D:\ or external hard drive, depending on your hardware type).

- 1** Click the **[MyRecovery]** icon on your desktop. The My Recovery screen will appear (See Figure 27). Note that the screen illustrated may vary, depending upon your system configuration.)
- 2** Click the **[Backup]** button on the MyRecovery screen.
- 3** On the next screen that appears, you can enter up to 200 characters of information about the backup file. This information will help you to identify the image at a later date.



**Figure 27. MyRecovery screen**

- 4 Click the [Next] button and the system will reboot.
- 5 After rebooting, the "Creating of the backup image" window appears, in which you can either click [Create the image on D drive] or [Select the drive] if you want to save to an external hard disk drive. (Note that the [Create the image on D drive may not be available on all configurations.)
- 6 An image appears showing you graphically how the image will be stored. Click the [Next] button.
- 7 Click [Execute] to start the backup.

## Managing Your Backup Images

With the MyRecovery tool you can also make copies of backup images, archive them on DVD, or delete them from your hard drive.

- 1** To begin, click the [MyRecovery] icon on your desktop.
- 2** Click the [Manage/Create] button in the MyRecovery window.
- 3** When the MyRecovery Manager window appears, click [Manage Backup Images].
- 4** In the next window, a list of your backup images appears. Below the list are three buttons allowing you to [Make DVD], [Copy], or [Delete] your backup images.
- 5** Select an image title from the list, then click the action button you would like to perform.
- 6** Note that you need to have an external disk drive connected for the [Copy] button to be enabled. If you elect to copy the image, you will be prompted to enter the destination. If you are ready to copy, click [OK] to proceed. A progress screen appears while the backup copy is being made.
- 7** Note that if you copy an image to an external hard drive, both the original and the copy will appear in the [Backup Images] window with identical names, dates, and file sizes, but with the different drive letter to distinguish them. Before you select [Make DVD], make sure you have a recordable DVD drive connected and blank DVDs available.

## Using the Recovery and Utility Tools

The Recovery and Utility tools consist of a variety of tools that will help you recover your Factory Image, recover system images, and delete the data from your hard disk.

### Methods for accessing the utilities

Recovery and Utility Tools are preinstalled in a hidden partition by the factory, or they can be accessed by using the bootable disc. Please note that you can delete Recovery and Utility tools from your hard disk drive if you modify the partitions. In this case you will not be able to use the hidden partition for booting to Recovery and Utility Tools, but you will still be able to boot from the Bootable Disc.

## Determining whether Recovery and Utility is pre-loaded

- 1 Turn on or reboot your system. When the Fujitsu logo appears, press [F12] key. The Boot Menu will appear.
- 2 Press the Tab key to select Application menu.
- 3 Check whether the <Recovery and Utility> option is present. If it is not present, it means that the utility must be used from the disc. Proceed to "Running Recovery and Utility from the Bootable Disc" if <Recovery and Utility> is unavailable.

## Running Recovery and Utility from hard disk

- 1 Turn on or reboot your system. When the Fujitsu logo appears, press [F12] key. The Boot Menu will appear.
- 2 Press the Tab key to select Application menu.
- 3 Cursor down to <Recovery and Utility> and press the [Enter] key.
- 4 While the files are being loaded from the disc, a progress bar will appear at the bottom of the screen.
- 5 When the System Recovery Options dialog opens, select a new keyboard layout, if necessary, then click [Next].
- 6 When the Operating System dialog appears, select "Use recovery tools...", then click [Next].
- 7 If necessary, enter your password, then click [OK].
- 8 When System Recovery Options window appears, click on Recovery and Utility.
- 9 The Recovery and Utility screen appears on the screen with three tabs: Diagnostics, Recovery and Utility. Please note that Diagnostics tab is not supported on certain LIFEBOOK/STYLISTIC models when running Recovery and Utility from the hard disk. In order to restore the operating system, please use the middle icon "Restoring the Factory Image (only C:\drive)" under the Recovery tab.

## Running Recovery and Utility from the Bootable disc

To verify/change the boot-up priority (rather than booting-up from the hard drive or an external floppy disk drive), perform the following steps:

- 1 Power on your system. When the Fujitsu logo appears on the screen, press the [F12] key to get to the Boot Menu.
- 2 Highlight the **CD/DVD** option.

- 3** Insert the bootable disc into an externally connected DVD drive tray.
- 4** Click [OK]. While the files are being loaded from the disc, a progress bar will appear at the bottom of the screen.
- 5** When the System Recovery Options dialog opens, select a new keyboard layout, if necessary, then click [Next].
- 6** When the Operating System dialog appears, click [Next].
- 7** If necessary, enter your password, then click [OK].
- 8** When System Recovery Options window appears, click on Recovery and Utility.
- 9** When the Recovery and Utility screen appears, three tabs will be present: Diagnostics, Recovery, and Utility.

### **Recovery and Utility tabs**

**Diagnostics tab:** The Diagnostics tool is designed for use by IT professionals. It is not likely you will need to use this tool. When you select devices from the Diagnosis window then click [Execute], several tests are performed on the selected components.

**Recovery tab:** The Recovery tab contains three tools: Recovering User-Configured System Backups, Restoring the Factory Image (only C: drive), and Restoring the Factory Image (full hard drive recovery). You can use these tools to restore the Factory Image from the hidden partition, restore backup image(s) created by you or images stored on DVD discs, and perform a full hard drive recovery. Please refer to instructions above for details on how to create Factory Image Recovery DVDs, user backup DVDs and system image backup.

**Utility tab:** The Utility tab contains three tools: Hard Disk Data Delete, Restore Recovery and Utility, and Windows Complete PC Restore.

- The **Hard Disk Data Delete** utility is used to delete all data on the hard disk and prevent the data from being reused. **NOTE: Do not use the Hard Disk Data Delete utility unless you are absolutely certain that you want to erase your entire hard disk, including all partitions.**
- **Restore Recovery and Utility** allows you to restore the first hidden partition.
- **Windows Complete PC Restore** utility allows you to restore an image created with Windows Backup and Restore Center. Complete PC Restore will overwrite the data on your hard disk drive.

## Recovering your Factory Image using Recovery and Utility (for new hard drive or non-bootable hard drive)

If you have installed a new hard drive or your hard drive is not bootable, perform the following steps. Note that first you will need to create new partitions on the hard drive, then restore the Factory Image:

- 1 Power on your system. When the Fujitsu logo appears on the screen. press the [F12] key.
- 2 Highlight the **CD/DVD** option.
- 3 Insert the bootable disc in an externally connected DVD drive tray, then click [OK].
- 4 When System Recovery Options window appears, click on <Recovery and Utility>.
- 5 When the System Recovery Options dialog opens, select a new keyboard layout, if necessary, then click [Next].
- 6 When the Operating System dialog appears, click [Next].
- 7 If necessary, enter your password, then click [OK].
- 8 When System Recovery Options window appears, click on Recovery and Utility.
- 9 Click the Recovery tab in the Recovery and Utility window, then click *Restoring the Factory Image* icon.
- 10 Click [Execute].
- 11 Read the precautions, then select "I Agree".
- 12 Click [Next], then click [Execute] to start the recovery process.
- 13 "1. Recovery Disc Check" will be in bold and the rest will be grayed out. Follow the instructions and "Insert the Recovery Disc #1". In some cases, you may prompted to "Insert the Recovery Disc #2", depending upon the size of the Recovery Image
- 14 Click [Next] to begin the check. Click [Next] again when the check is complete.
- 15 "2. Initializing hard disk drive" will be in bold with the message "Please insert the Bootable Disc into your optical drive". Insert the bootable disc. Click [Next] to proceed. A dialog box appears, with a checking disc message.
- 16 "Warning All DATA on the Hard Disk will be completely erased!!!" will appear. Select [OK]. The partition creation process will begin.
- 17 "3. Restoring Factory Image to hidden partition" will be in bold with the message "Please insert the Recovery Disk#1 into the optical drive". Click [Next] to proceed.

After completion, the tool will automatically go back to "3.Restoring Factory Image to hidden partition" but will include the note "Please insert your Third Party Applications Disc or CyberLink DVD, then click [OK]. After installation of each disc, insert the next and continue until all have been installed. If you don't have your Third Party Applications Disc and/or CyberLink DVD, or you have already inserted these discs, please click [Skip] to continue. NOTE: In some cases (products without an optical drive) you will not have a CyberLink DVD".

At this point, you can either:

- Insert Application Disc(s) to restore back to hidden partition, or,
- Click [Skip] to skip restoring Application disc(s) and continue with restore.

- 18 If you select to insert Application Disc, after copying of application disc(s) to hidden partition is completed, the message will appear again. Repeat inserting application disc(s) until all discs have been copied, then click [Skip] to continue with Restore.
- 19 After clicking [Skip], a confirmation message will appear "If you want to skip copying or you have finished copying, click [OK]. Click [Cancel] to go back to Restoring Factory Image to hidden partition."
- 20 Click [OK] and Restoring Factory Image will begin.
- 21 When restoration is complete, you will see the message "Restoration has been completed. Click [OK] to reboot the computer." Click [OK].

## Downloading Driver Updates

To ensure that you always have the most current driver updates related to your system, you should occasionally access the Fujitsu Software Download Manager (FSDM) utility. The FSDM utility is available from the Fujitsu Support site. FSDM will allow you to view a list of the most current drivers, utilities, and applications to determine whether you have the latest versions. If you have a Windows 7 operating system, you will need to go to the Support Site to download the FSDM Utility: <http://support.fujitsupc.com/CS/Portal/support.do?srch=DOWNLOADS>.

# Chapter 5

# Care and Maintenance

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## Caring for your Hybrid Tablet

If you use your STYLISTIC Hybrid Tablet carefully, you will increase its life and reliability. This section provides some tips for looking after the Hybrid Tablet and its devices.

THE SYSTEM CONTAINS COMPONENTS THAT CAN BE SEVERELY DAMAGED BY ELECTROSTATIC DISCHARGE (ESD). TO MINIMIZE RISK TO THE COMPONENTS, OBSERVE THE FOLLOWING PRECAUTIONS:

- IF YOU DROP YOUR HYBRID TABLET OR DAMAGE THE HOUSING IN ANY WAY, IMMEDIATELY TURN OFF POWER AND DISCONNECT THE POWER PLUG. FAILURE TO DO SO COULD RESULT IN A SHORT CIRCUIT, SMOKE, AND/OR FIRE. CONTACT FUJITSU SERVICE AND SUPPORT BY PHONE AT 1-800-8FUJITSU (1-800-838-5487), BY EMAIL AT [8FUJITSU@US.FUJITSU.COM](mailto:8FUJITSU@US.FUJITSU.COM), OR THROUGH THE WEBSITE AT [HTTP://WWW.COMPUTERS.US.FUJITSU.COM/SUPPORT](http://WWW.COMPUTERS.US.FUJITSU.COM/SUPPORT) TO LEARN HOW TO GET THE SYSTEM REPAIRED.



- BEFORE DOCKING OR UNDOCKING YOUR HYBRID TABLET (WHEN USING A DOCKING CRADLE), IT IS GOOD PRACTICE TO TOUCH A GROUNDED METAL OBJECT TO DISCHARGE STATIC ELECTRICITY IN YOUR BODY.
- ELECTRICAL EQUIPMENT MAY BE HAZARDOUS IF MISUSED. OPERATIONS OF THIS PRODUCT OR SIMILAR PRODUCTS, MUST ALWAYS BE SUPERVISED BY AN ADULT. DO NOT ALLOW CHILDREN ACCESS TO THE INTERIOR OF ANY ELECTRICAL PRODUCTS AND DO NOT PERMIT THEM TO HANDLE ANY CABLES.

- Your STYLISTIC is a durable but sensitive electronic device. Treat it with respect and care.
- Make a habit of transporting it in a suitable carrying case.
- Do not attempt to service the computer yourself. Always follow installation instructions closely.
- Keep it away from food and beverages.

- If you accidentally spill liquid on your STYLISTIC Hybrid Tablet:
  - 1 Turn it off.
  - 2 Position it so that the liquid can run out and let it dry out for 24 hours, or longer if needed.
  - 3 If your Hybrid Tablet will not boot after it has dried out, call your support representative.
- Do not use your Hybrid Tablet in a wet environment (near a bathtub, swimming pool).
- Always use the AC adapter and batteries that are approved for your Hybrid Tablet.
- Avoid exposure to sand, dust and other environmental hazards.
- Do not expose your Hybrid Tablet to direct sunlight for long periods of time as temperatures above 140° F (60° C) may damage your Hybrid Tablet.
- Do not put heavy or sharp objects on the computer.

### **Cleaning your Hybrid Tablet**

- Always disconnect the power plug. (Pull the plug, not the cord.)
- Clean your STYLISTIC Hybrid Tablet with a damp, lint-free cloth. Do not use abrasives or solvents.
- Use a soft cloth to remove dust from the screen. Never use glass cleaners.
- Always shut down the computer, unplug the power adapter, and remove the battery when cleaning or disinfecting the computer exterior or LCD display.

### **Cleaning guidelines using recommended off-the-shelf cleaners**

**Computer exterior.** To clean the exterior, use one of the following off-the-shelf products:

- Office Depot® #154-616 b Cleaning Kit
- Meridrew Enterprises Klear Screen® Wipes
- 3M CL563 Cleaner Wipes

Note: After cleaning with one of these products, gently polish with a dry, soft, lint-free cloth until the solution is no longer visible.

### **Disinfecting STYLISTIC computers**

Wipe the surface with a soft cloth wipe and a 50% ethanol solution or use another ethanol-based germicide which has been registered as a hospital disinfectant by the EPA.



- USE OF INCORRECT CLEANERS CAN RESULT IN OPTICAL IMPAIRMENT OF THE LCD AND/OR DAMAGE TO THE COMPUTER. ALWAYS REFER TO THE CLEANER MANUFACTURER'S GUIDELINES AND MATERIAL SAFETY DATA SHEETS FOR PROPER HANDLING AND USE OF THE PRODUCTS.
- NEVER USE AMMONIA, ACIDIC, OR ALKALINE CLEANERS OR ORGANIC CHEMICALS SUCH AS PAINT THINNER, ACETONE, PROPYL OR ISOPROPYL ALCOHOL, OR KEROSENE. IT MAY DAMAGE SURFACE FINISHES AND THE COATING OF THE LCD SCREEN.
- NEVER USE COMPRESSED AIR FOR CLEANING YOUR COMPUTER.

## Storing your Hybrid Tablet

- If storing your Hybrid Tablet for a month or longer, turn it off, fully charge the battery, then remove and store all Lithium Polymer batteries.
- Store your Fujitsu STYLISTIC in a cool, dry location. Temperatures should remain between 13°F (-25°C) and 140°F (60°C).
- Store your tablet and batteries separately. If you store your system with a battery installed, the battery will discharge, and battery life will be reduced. In addition, a faulty battery might damage your system.



- ALWAYS POWER OFF THE COMPUTER BEFORE TRANSPORTING AND/OR PACKAGING IT. AFTER SHUTTING DOWN THE SYSTEM, WAIT UNTIL THE STATUS LED PANEL INDICATES POWER OFF CONDITION (I.E., NO LIGHTS ARE ILLUMINATED).
- IT IS POSSIBLE THAT THE UNIT MAY NOT AUTOMATICALLY GO TO POWER OFF OR HIBERNATE MODE WHEN YOU CLOSE THE LID. THIS SITUATION MAY OCCUR DUE TO PRE-OS BOOT PASSWORD SECURITY SETTINGS OR SOME OTHER APPLICATION RUNNING ON THE COMPUTER.
- ATTEMPTING TO TRANSPORT THE COMPUTER WHILE POWER IS ON MAY DAMAGE THE HYBRID TABLET DUE TO SHOCK OR OVERHEATING.

## Traveling with your Hybrid Tablet

- Do not transport your Hybrid Tablet while it is turned on.
- You should carry your tablet with you while traveling, rather than checking it in as baggage.
- Never put your tablet through a metal detector; have it hand-inspected by security personnel. You can however, put your tablet through a properly tuned X-ray machine. To avoid problems, place it close to the entrance of the machine and remove it as soon as possible or have it hand-inspected by security personnel. Security officials may require you to turn your system on, so make sure you have a charged battery on hand.

- Take the necessary plug adapters if you're traveling overseas. Check the following diagram to determine which plug adapter you'll need or ask your travel agent.

| Outlet Type   | Location  | Outlet Type  | Location  |
|---|---|--|---|
|   | United States, Canada, parts of Latin America, Mexico, Japan, Korea, the Philippines, Taiwan  |  | United Kingdom, Ireland, Malaysia, Singapore, parts of Africa |
|    | Russia and the Commonwealth of Independent States (CIS), most of Europe, parts of Latin America, the Middle East, parts of Africa, Hong Kong, India, most of South Asia |  | China, Australia, New Zealand                                 |

## Batteries

### Caring for your Battery

- Always handle batteries carefully.
- Do not short-circuit the battery terminals (that is, do not touch both terminals with a metal object). Do not carry loose batteries in a pocket or purse where they may mix with coins, keys, or other metal objects. Doing so may cause an explosion or fire.
- Do not drop, puncture, disassemble, mutilate or incinerate the battery.
- Recharge batteries only as described in this manual and only in ventilated areas.
- Do not leave batteries in hot locations for more than a day or two. Intense heat can shorten the life of your battery.
- Do not leave a battery in storage for longer than 6 months without recharging it.

### Increasing Battery Life

- Power your Hybrid Tablet through the AC or optional auto/airline adapter whenever possible.
- If your tablet runs on battery power all day, connect it to an AC adapter overnight to recharge it.

- Keep brightness to the lowest level comfortable.
- Set the power management for maximum battery life.
- Put your Hybrid Tablet in Sleep mode when it is turned on and you are not actually using it.
- Limit your media drive access.
- Disable the Media Player auto insert notification function.

## Media Care

### Caring for your Media (when optional external optical drive is installed)

Media discs are precision devices and will function reliably if given reasonable care.

- Always store your media disc in its case when it is not in use.
- Always handle discs by the edges and avoid touching the surface.
- Avoid storing any media discs in extreme temperatures.
- Do not bend or scratch media discs or set heavy objects on them.
- Do not spill liquids or get dust on media discs.
- Never write on the label surface with a ballpoint pen or pencil. Always use a felt pen.
- If a disc is dirty, use only a DVD/CD cleaner or wipe it with a clean, soft, lint free cloth starting from the inner edge and wiping to the outer edge.
- If a disc is subjected to a sudden change in temperature, condensation may form on the surface. Wipe moisture off with a soft, lint free cloth and let it dry at room temperature. DO NOT use a hair dryer or heater to dry media discs.

### Caring for an Optional Optical Drive

An optional optical drive is durable but you must treat it with care. Please pay attention to the following points:

- The drive rotates the compact disc at a very high speed. Do not carry it around or subject it to shock or vibration with the power on.
- Avoid using or storing the drive where it will be exposed to extreme temperatures.
- Avoid using or storing the drive where it is damp or dusty.
- Avoid using or storing the drive near magnets or devices that generate strong magnetic fields.
- Avoid using or storing the drive where it will be subjected to shock or vibration.

- Do not disassemble or dismantle the optical drive.
- Use of a commercially available lens cleaner is recommended for maintenance of your drive.

## **Secure Digital Cards**

### **Caring for your Cards**

Secure Digital Cards are durable, but you must treat them with care. The documentation supplied with your card will provide specific information, but you should pay attention to the following points:

- To keep out dust and dirt, store cards in their protective sleeves when they are not installed.
- Avoid prolonged exposure to direct sunlight or excessive heat.
- Keep the cards dry.
- Do not flex or bend the cards, and do not place heavy objects on top of them.
- Do not force cards into the slot.
- Avoid dropping cards, or subjecting them to excessive vibration.

# Chapter 6

# System Specifications

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## Specifications

This section provides the hardware and environmental specifications for your Fujitsu STYLIC Hybrid Tablet. Specifications of particular configurations will vary.

### Microprocessor

Intel® 3rd Generation Core processors (1.8 GHz)

### Chipset

- Intel QM77 or HM76, depending upon processor

### Memory

#### System Memory

- DDR3-1600 MHz SDRAM memory module.
- 2GB or 4GB of total memory (onboard) (4GB maximum)

#### Cache Memory

3MB L3 cache

## Video

### Video Color and Resolution

#### Anti-glare 11.6" HD IPS display

- Internal: 1366x768 pixel resolution, 16M colors
- External (HDMI from system): 1920x1200 pixel resolution, 16M colors
- External: (VGA from optional keyboard dock): 1920 x1200, 16M colors
- 160° vertical and horizontal viewing angles (80/80/80/80)

#### Digitizer

N-trig® DuoSense® technology. Dual Digitizer, consisting of active digitizer and capacitive touch panel (uses active stylus input and up to four finger touch input).

#### Video RAM

Shared Intel® HD Graphics 4000 controller. Uses Unified Memory Architecture (UMA) built onto motherboard which shares part of main memory for video memory. The amount of shared video memory is determined by the amount of system memory.

#### Audio

- Realtek codec ALC269
- **Headphones:** Stereo headphone jack, 3.5 mm, 1 V<sub>rms</sub> or less, minimum impedance 32 Ohms
- One built-in speaker, 18 mm diameter
- Hard button volume control
- Two built-in dual analog microphones

## Mass Storage Device Options

### Hard Drive Options

- Solid State Drive, mSATA/600 (6.0Gbps), 64 GB, with TRIM command support
- Solid State Drive, mSATA/600 (6.0Gbps), 128 GB, with TRIM command support
- Solid State Drive, mSATA/600 (6.0Gbps), 256 GB, with TRIM command support

### Communications

- **WLAN:** Optional Integrated Intel Centrino Advanced-N 6205 (802.11abgn 2x2), or, Atheros XSPAN HB116 802.11abgn 
- **Bluetooth:** Broadcom BCM20702 Bluetooth USB 4.0 device for wireless personal area network communication
- **WWAN:** Optional integrated 3G Wireless Wide Area Network, Gobi3000 (**Sierra Wireless AirPrime™ MC8355**)

### Security Features

#### Trusted Platform Module

The STYLISTIC Q702 Hybrid Tablet may have an optional Trusted Platform Module (TPM) installed for added system security.

#### Fingerprint Recognition Sensor

Swipe sensor for biometric security.

#### Device Ports

#### On the STYLISTIC Hybrid Tablet:

- SD Card slot
- One USB 2.0 (Universal Serial Bus) connector for input/output devices
- Two USB 3.0 (Universal Serial Bus) connectors for input/output devices
- One DC In connector
- One HDMI connector
- Docking port (100-pin, to dock with optional STYLISTIC Docking Cradle)

- One stereo headphone out/line out jack
- One stereo microphone in/line in jack
- 1920x1080 pixel FHD rear-facing web camera, 1280x720 pixel HD front-facing web camera

## On the Optional STYLIC Keyboard Docking Station

- Two USB 2.0 connectors for input/output devices
- One DC-in connector
- One LAN (RJ-45) connector
- One VGA out connector
- One docking connector (80-pin, to dock with tablet)

## Power

### Battery Options

- Lithium Polymer Battery, 3 cells, 10.6V, 34Wh
- Optional Lithium Polymer Keyboard Dock/Slice Battery, 4-cell, 14.4V, 45 Wh

### AC Adapter

Autosensing 100-240V AC, supplying 19V DC, 60W to the Hybrid Tablet; includes an AC cable

### Power Management

Conforms to ACPI (Advanced Configuration and Power Interface).

### Dimensions and Weight

#### Overall Dimensions

Tablet only: 11.89" (w) x 7.68" (d) x 0.50" (h) (302 x 195 x 12.7 mm)

Tablet with optional keyboard dock: 11.89" (w) x 7.99" (d) x 1.07" (h) (302 x 203 x 27.1 mm)

## **Weight**

Tablet only: Approximately 1.87 lb. (.85 kg)

Tablet with optional keyboard dock: Approximately 3.86 lb. (1.75 kg)

## **Environmental Requirements**

### **Temperature**

Operating: 41° to 95° F (5° to 35° C). Non-operating: 5° to 140° F (-15° to 60° C)

### **Humidity**

Operating: 20% to 85%, relative, non-condensing. Non-operating: 8% to 85%, relative, non-condensing

### **Altitude**

Operating: 10,000 feet (3,048 m) maximum

## **Popular Accessories**

For ordering or additional information on Fujitsu accessories please visit our Web site at [www.shopfujitsu.com](http://www.shopfujitsu.com) or call 1-800-FUJITSU.

## **Included Software**

Depending on your pre-installed operating system, your Hybrid Tablet comes with software for playing audio and video files of various formats. In addition there is virus protection software and Power Management software. The following list indicates the software included with your system.

- Adobe® Reader
- OmniPass® Fingerprint application
- Google Toolbar
- CyberLink YouCam
- Norton Internet Security 2012
- Microsoft Windows Live Essentials

## **Learning About Your Software**

### **Tutorials**

All operating systems and most application software have tutorials built into them upon installation. We highly recommend that you step through the tutorial before you use an application.

### **Manuals**

Included with your Hybrid Tablet you will find manuals for your installed operating system and other pre-installed software. Any manuals that are not included, are available online through the help system of the software. We recommend that you review these manuals for general information on the use of these applications.

### **Adobe Reader**

The Adobe Reader allows you to view, navigate, and print PDF files from across all of the major computing platforms.

### **OmniPass® Fingerprint application**

The fingerprint sensor uses Softex OmniPass which provides password management capabilities to Microsoft Windows operating systems. OmniPass lets you use a "master password" for all Windows, applications, and on-line passwords, and presents a convenient user interface through which you can securely manage passwords, users, and multiple identities for each user.

### **Google Toolbar**

Google Toolbar lets you to search the Internet quickly, block pop-ups, and perform a variety of other tasks to make your Internet experience easier and more pleasant.

### **Norton Internet Security 2012**

Your system is preinstalled with a free 60-day trial version of Symantec's Norton Internet Security™ 2012. Internet Security is a suite of tools designed to protect your STYLISTIC from viruses, hackers, spam, and spyware. It helps you protect data currently on your hard disk from destruction or contamination. The trial version is activated upon your acceptance of software license agreement. After 60 days, you will need to purchase a subscription from Symantec to download latest virus, spyware, and spam definitions.

## **CyberLink YouCam**

CyberLink YouCam allows you to capture photos or movies on the embedded webcam, add special effects to them, and share them in a variety of formats or via social networks.

## **Microsoft Windows Live Essentials**

Windows Live Essentials is a suite of programs that make it easier and more enjoyable to use your STYLISTIC. Live Essentials consists of 6 applications: Messenger, Photo Gallery, Writer, Mail, Movie Maker, and Silverlight. Messenger lets you quickly communicate and interact with individuals and groups. Photo Gallery is a flexible application that lets you organize, edit, and share your photos. Writer can be used to generate blog entries, upload videos and photos to your blogs, and publish your entries online. Mail makes it easy for you to manage your email accounts. Movie Maker makes great-looking movies and slideshows from your videos and photos. It's simple to import standard or high definition video and photos, and then have AutoMovie add animations, music, and a title in minutes. Silverlight powers rich application experiences and delivers high quality, interactive video across the Web and mobile devices.

## **Operating System**

The following operating system configuration is installed on your system:

## **Microsoft Windows 7 Professional Edition**

# Regulatory Information

## Notice

Changes or modifications not expressly approved by Fujitsu could void this user's authority to operate the equipment.

## FCC NOTICES

### Notice to Users of Radios and Television

This equipment has been tested and found to comply with the limit for class B digital devices, pursuant to parts 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 that is on a different circuit than the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnect cables must be employed with this equipment to ensure compliance with the pertinent RF emission limits governing this device.

## DOC (INDUSTRY CANADA) NOTICES

### Notice to Users of Radios and Television

This Class B digital apparatus meets all requirements of Canadian Interference-Causing Equipment Regulations.

CET appareil numérique de la class B respecte toutes les exigence du Réglement sur le matériel brouilleur du Canada.

# Appendix A: WLAN User's Guide

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## FCC Regulatory Information

Please note the following regulatory information related to the optional wireless LAN device.

### Regulatory Notes and Statements

#### Wireless LAN, Health and Authorization for use

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions, however, are far much less than the electromagnetic energy emissions from wireless devices such as mobile phones. Wireless LAN devices are safe for use by consumers because they operate within the guidelines found in radio frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments, such as:

- On board an airplane, or
- In an explosive environment, or
- In situations where the interference risk to other devices or services is perceived or identified as harmful.

In cases in which the policy regarding use of Wireless LAN devices in specific environments is not clear (e.g., airports, hospitals, chemical/oil/gas industrial plants, private buildings), obtain authorization to use these devices prior to operating the equipment.

## 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 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 or attachment of connecting cables and equipment other than those specified by the manufacturer. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. The manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failure to comply with these guidelines.

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

**For IEEE 802.11a Wireless LAN:** For operation within 5.15~5.25 GHz frequency range, it is restricted to indoor environments, and the antenna of this device must be integral.

## Federal Communications Commission statement

This device complies with Part 15 of FCC Rules.

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 this device.

## FCC Interference 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. If not installed and used in accordance with the instructions, it 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 and correct the interference by one or more of the following measures:

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

## **FCC Radio Frequency Exposure statement**

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposure have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

The wireless LAN radio device has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65.

## **Export restrictions**

This product or software contains encryption code which may not be exported or transferred from the US or Canada without an approved US Department of Commerce export license. This device complies with Part 15 of FCC Rules., as well as ICES 003 B / NMB 003 B. 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 undesirable operation. Modifications not expressly authorized by Fujitsu America, Inc. may invalidate the user's right to operate this equipment.

## **Canadian Notice**

The device for the 5150 - 5250 MHz band is only for indoor usage to reduce the potential for harmful interference to co-channel mobile satellite systems.

The maximum antenna gain of 6 dBi permitted (for devices in the 5250 - 5350 MHz, 5470 - 5725 MHz and 5725 - 5825 MHz bands) to comply with the e.i.r.p. limit as stated in A9.2 of RSS210.

In addition, users are cautioned to take note that high power radars are allocated as primary users (meaning they have priority) of 5250 - 5350 MHz and 5650 - 5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

# Before Using the Optional Wireless LAN

This manual describes the procedures required to properly set up and configure the optional integrated Wireless LAN USB device (referred to as "WLAN device" in the rest of the manual). Before using the WLAN device, read this manual carefully to ensure its correct operation. Keep this manual in a safe place for future reference.

## Wireless LAN Device Covered by this Document

This document is applicable to systems containing one of the following optional devices:

- Integrated Intel Centrino Advanced-N 6205 (802.11a/b/g/n)
- Atheros XSPAN 802.11abgn

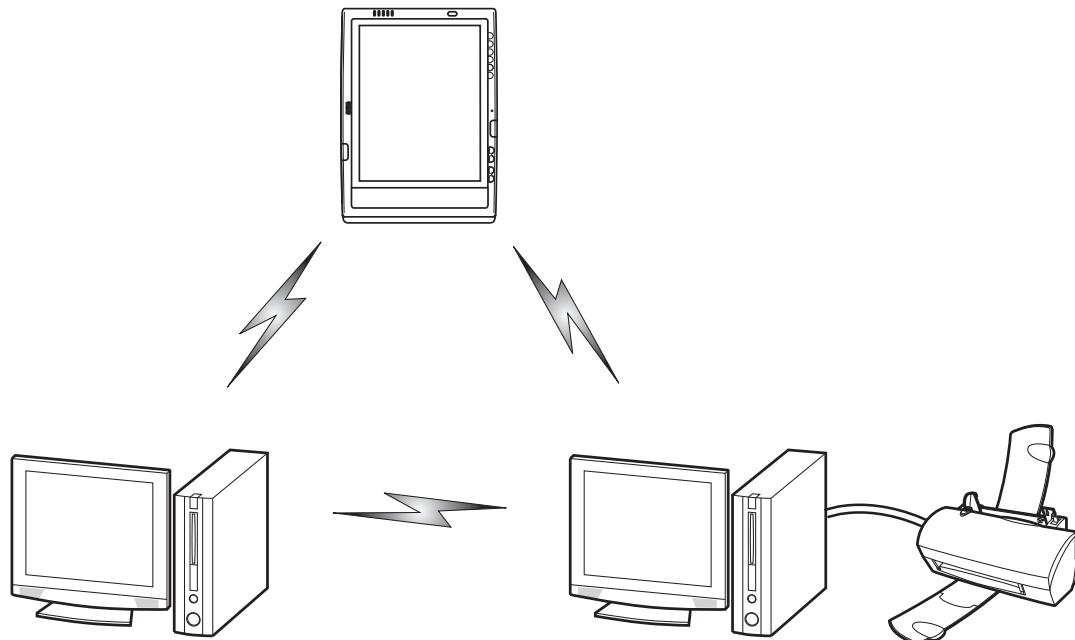
## Characteristics of the WLAN Device

- The WLAN device is a USB module attached to the main board of the mobile computer.
- The WLAN device operates in license-free RF bands, eliminating the need to procure an FCC operating license. The WLAN operates in the 2.4GHz Industrial, Scientific, and Medical (ISM) RF band and the lower, middle, and upper bands of the 5GHz Unlicensed National Information Infrastructure (UNII) bands.
- The WLAN devices are capable of four operating modes, IEEE802.11a, IEEE802.11b, IEEE802.11g, and IEEE802.11n
- The WLAN devices are Wi-Fi certified and operate (as applicable) at a the maximum data rate of 150 Mbps (theoretical) in IEEE802.11n mode; 54 Mbps in IEEE802.11a or IEEE802.11g mode; and 11 Mbps in IEEE802.11b mode.
- The WLAN devices support the following encryption methods - WEP, TKIP, CKIP, and AES encryption.
- The Wireless LAN devices are compliant with the following standards: WPA, WPA2, CCX1.0, CCX2.0, CCX3.0, CCX4.0, and CCX5.0.

## Wireless LAN Modes Using this Device

### Ad Hoc Mode

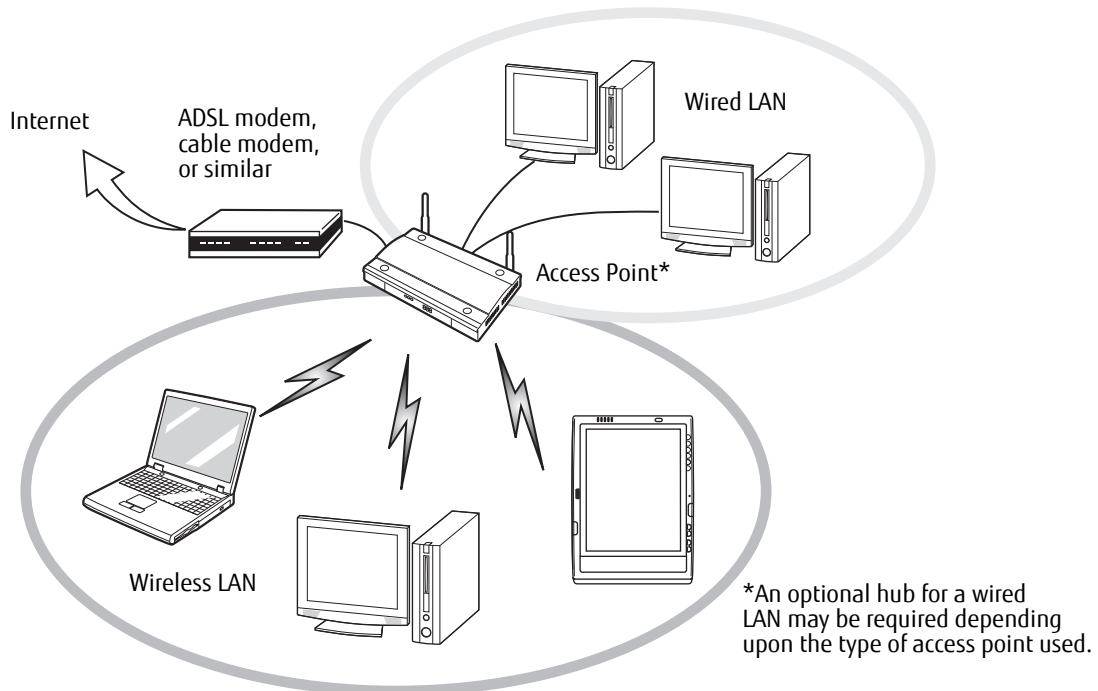
"Ad Hoc Mode" refers to a wireless network architecture where wireless network connectivity between multiple computers is established without a central wireless network device, typically known as Access Point(s). Connectivity is accomplished using only client devices in a peer-to-peer fashion. That is why Ad Hoc networks are also known as peer-to-peer networks. Ad Hoc networks are an easy and inexpensive method for establishing network connectivity between multiple computers. Ad Hoc mode requires that the SSID, network authentication, and encryption key settings are identically configured on all computers in the Ad Hoc network.



**Figure 28. Ad Hoc Mode Network**

## Access Point (Infrastructure) Mode

Infrastructure mode refers to a wireless network architecture in which devices communicate with wireless or wired network devices by communicating through an Access Point. In infrastructure mode, wireless devices can communicate with each other or with a wired network. Corporate wireless networks operate in infrastructure mode because they require access to the WLAN in order to access services, devices, and computers (e.g., file servers, printers, databases).



**Figure 29. Access Point (Infrastructure) Mode Network**

## How to Handle This Device

The WLAN device is an optional device that may come pre-installed in your mobile computer. Under normal circumstances, it should not be necessary for you to remove or re-install it. The operating system that your mobile computer comes with has been pre-configured to support the WLAN device.

- The Wireless LAN devices support IEEE802.11a, IEEE802.11b, IEEE802.11g, and IEEE802.11n.
- The WLAN devices operate in the 2.4 GHz ISM band and the 5 GHz lower, middle, and upper UNII bands.
- Microwave ovens may interfere with the operation of WLAN devices since they operate in the same 2.4 GHz frequency range as IEEE802.11b/g/n devices. Interference by microwaves does not occur with IEEE802.11a radio which operates in the 5 GHz RF band.
- Wireless devices that transmit in the 2.4 GHz range may interfere with operation of WLAN devices in IEEE802.11b/g/n modes. Symptoms of interference include reduced throughput, intermittent disconnects, and many frame errors. It is HIGHLY recommended that these interfering devices be powered off to ensure proper operation of the WLAN device.

## Deactivating/Disconnecting the WLAN Device

Disconnecting the WLAN device may be desired in certain circumstances (to extend battery life) or where certain environments require it (i.e. hospitals, clinics, airplanes, etc.). The WLAN device can be deactivated by using the Wireless On/Off Switch, and it can be disconnected in Windows using the WLAN icon in the system tray (Note that disconnecting via the icon in the system tray does not turn off the radio; it continues to transmit and receive even though it's not connected.).

## Deactivation Using the Wireless On/Off Switch

The WLAN device can be deactivated quickly and efficiently by toggling the Wireless Device On/Off Switch to the Off position. The switch has no effect on non-Wireless LAN models.

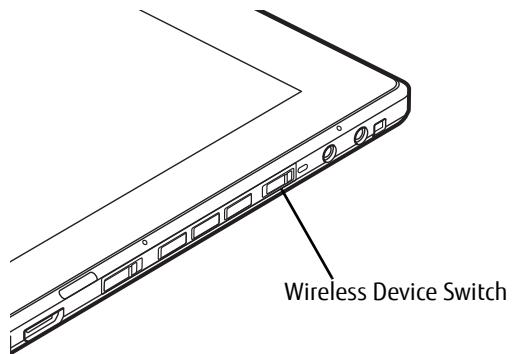


Figure 30. Wireless LAN/Bluetooth On/Off Switch Location

## Disconnection Using the Icon in the Taskbar

Note that disconnecting via the icon in the system tray does not turn off the radio; it continues to transmit and receive even though it's not connected.

- 1 Right-click the WLAN icon in the taskbar at the bottom right of your screen.
- 2 Choose Disconnect from a network.

## Activating the WLAN Device

Activation of the WLAN device can be accomplished using the same methods as the deactivation process

- Using the Wireless On/Off Switch
- In Windows, by right-clicking the WLAN icon then clicking "Connect to a network"

# Configuring the Wireless LAN

The WLAN device can be configured to establish wireless network connectivity using the software that is built into Windows. Support for most industry standard security solutions is contained in this software.

Pre-defined parameters will be required for this procedure. Ask your network administrator for these parameters:

## Configuring the WLAN

- 1 Click the Start button, then select Control Panel.
- 2 If the Control Panel is not in Classic View, select Classic View from the left panel. Double-click the Network Connections icon.
- 3 Double-click on the Wireless Network Connection icon.
- 4 Click on [View Wireless Networks]
- 5 Choose a wireless network.
- 6 Click [Connect].
- 7 Enter the Network Key, if required.
- 8 Enter any required information. It may be necessary to consult with your network administrator for some of the information.
- 9 If you require assistance, go to [Start] -> Help and Support -> Networking and the Web. Select the main topic in which you are interested, then type in relevant keywords in the Search box.

## Connection to the network

After you have configured your computer, you can connect to an active network by performing the following steps:

- 1 Click on the WLAN icon in the system tray.
- 2 Select "Connect to a network".
- 3 Select a network from the list that appears, and click the [Connect] button.

After you have configured your computer, you can connect to an active network by clicking on the Wireless Network icon in the system tray:

# Troubleshooting the WLAN

## Troubleshooting

Causes and countermeasures for troubles you may encounter while using your wireless LAN are described in the following table. If you are unfamiliar with the steps required, consult your System Administrator or go to [Start] -> Help and Support -> Networking and the Web

| Problem                        | Possible Cause                                    | Possible Solution   |
|--------------------------------|---|---|
| Unavailable network connection | Incorrect network name (SSID) or network key      | <b>Ad hoc connection:</b> verify that the network names (SSID's) and network keys (WEP) of all computers to be connected have been configured correctly. SSID's and WEP key values must be identical on each machine.<br><br><b>Access Point (Infrastructure) connection:</b> set network name (SSID) and network key to the same values as those of the access point.<br><br>Set the Network Authentication value identically to that of the Access Point. Please consult your network administrator for this value, if necessary. |
|                                | Weak received signal strength and/or link quality | Ad hoc connection: Retry connection after shortening the distance to the destination computer or removing any obstacles for better sight.<br><br>Access Point (Infrastructure) connection: Retry connection after shortening the distance to the access point or removing any obstacles for better transmission.  |
|                                | The WLAN device has been deactivated or disabled  | Check if the wireless switch is turned On. Go to Start -> Control Panel, and double-click on Windows Mobility Center. If the wireless network is off, click the [Turn wireless on] button.  |
|                                | The computer to be connected is turned off        | Check if the computer to be connected is turned ON.   |

| <b>Problem</b>                                    | <b>Possible Cause</b>   | <b>Possible Solution</b>   |
|---|---|--|
| Unavailable network connection<br><br>(continued) | RF interference from Access Points or other wireless networks | The use of identical or overlapping RF channels can cause interference with the operation of the WLAN device. Change the channel of your Access Point to a channel that does not overlap with the interfering device.  |
|   | Wireless network authentication has failed                    | Re-check your Network Authentication, Encryption, and Security settings. Incorrectly configured security settings such as an incorrectly typed WEP key, a misconfigured LEAP username, or an incorrectly chosen authentication method will cause the LAN device to associate but not authenticate to the wireless network. |
|   | Incorrectly configured network settings                       | Recheck the configuration of your network settings.  |
|   | Incorrect IP address configuration                            | This only applies to networks using static IP addresses. Please contact your network administrator for the correct settings.   |

# WLAN Specifications

## Specifications

| Item   | Specification  |
|--|--|
| Type of network  | The integrated Intel Centrino Advanced-N 6205 (802.11abgn 2x2) and Atheros XSPAN 802.11a/b/g/n WLAN devices conform to IEEE 802.11a, 802.11b/g, and 802.11n, Wi-Fi based*.   |
| Transfer rate  | (Automatic switching) 150 Mbps maximum data rate   |
| Active frequency   | <ul style="list-style-type: none"><li>802.11n: 2.4 GHz or 5 GHz</li><li>802.11b/g: 2400~2473 MHz</li><li>802.11a: 4900 ~ 5850 MHz</li></ul>  |
| Typical operating distances**  | <ul style="list-style-type: none"><li>802.11a: 40 ft. (12 m) @ 54 Mbps; 300 ft. (91 m) @ 6 Mbps</li><li>802.11b: 100 ft. (30 m) @ 11 Mbps; 300 ft. (91 m) @ 1 Mbps</li><li>802.11g: 100 ft. (30 m) @ 54 Mbps; 300 ft. (91 m) @ 1 Mbps</li><li>802.11n: Estimated double the operating distance of 802.11g and 802.11a in their respective frequencies.</li></ul>         |
| Number of channels   | <ul style="list-style-type: none"><li>802.11a: 8 independent channels</li><li>802.11b/g: 11 channels, 3 non-overlapping channels</li><li>802.11n: 2.4 GHz - 3 non-overlapping channels when Channel Bonding is not used; 2 non-overlapping channels when Channel Bonding is used.<br/>5 GHz - 12 non-overlapping UNII channels with or without Channel Bonding</li></ul> |
| Security   | Encryption Types - WEP, TKIP, AES***, WPA 1.0 compliant  |
| Maximum recommended number of computers to be connected over wireless LAN (ad hoc connection). | 10 units or less ****  |

\* "Wi-Fi based" indicates that the interconnectivity test of the organization which guarantees the interconnectivity of wireless LAN (Wi-Fi Alliance) has been passed.

\*\* The communication ranges shown above will increase or decrease depending on factors such as number of walls, reflective material, or interference from external RF sources.

\*\*\* Encryption with network key (WEP) is performed using the above number of bits, however, users can set 40 bits/ 104 bits after subtracting the fixed length of 24 bits.

\*\*\*\* Depending on practical environments, the allowable number of computers to be connected may be decreased.

# Using the Bluetooth Device

The optional Integrated Bluetooth (V. 3.0) module is a wireless device installed in selected Fujitsu mobile computers.

## What is Bluetooth

Bluetooth technology is designed as a short-range wireless link between mobile devices, such as laptop computers, phones, printers, and cameras. Bluetooth technology is used to create Personal Area Networks (PANs) between devices in short-range of each other.



SLIDING THE WIRELESS DEVICE SWITCH ON THE FRONT OF THE SYSTEM WILL TURN BOTH THE OPTIONAL WIRELESS LAN AND BLUETOOTH DEVICES ON AND OFF AT THE SAME TIME. TO ENABLE OR DISABLE BLUETOOTH INDIVIDUALLY, PERFORM THE FOLLOWING STEPS:

- GO TO START > **ALL PROGRAMS** > **BLUETOOTH**.
- CLICK ON **OPTIONS** UNDER THE BLUETOOTH MENU AND CLICK ON THE **BLUETOOTH RADIO POWER** BUTTON.
- CLICK [OK].

## Where to Find Information About Bluetooth

For additional information about Bluetooth Technology, visit the Bluetooth Web site at: [www.bluetooth.com](http://www.bluetooth.com).

## **FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The Bluetooth antenna is located on the front edge of the right palm rest and is exempt from minimum distance criteria due to its low power.

The transmitters in this device must not be co-located or operated in conjunction with any other antenna or transmitter.

## **Canadian Notice**

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.

## **Warranty**

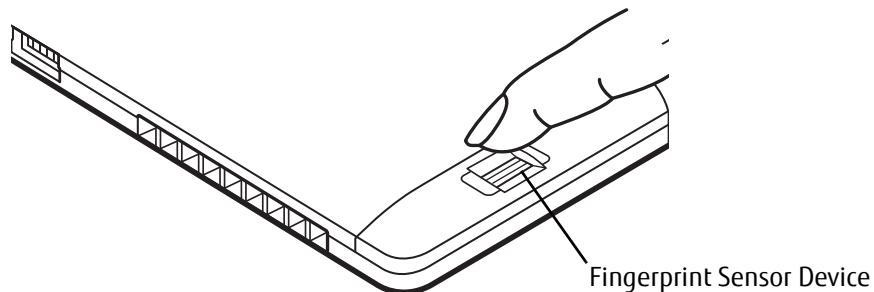
Users are not authorized to modify this product. Any modifications invalidate the warranty.

This equipment may not be modified, altered, or changed in any way without signed written permission from Fujitsu. Unauthorized modification will void the equipment authorization from the FCC and Industry Canada and the warranty.

# Appendix B: Fingerprint Sensor Device

## Introducing the Fingerprint Sensor Device

Your system has a fingerprint sensor device at the bottom left below the display screen.



**Figure 31. Fingerprint sensor**

With a fingerprint sensor, you can avoid having to enter a username and password every time you want to:

- Log onto Windows
- Cancel a password-protected screen saver
- Log into homepages that require a username and password

After you have "enrolled" - or registered - your fingerprint, you can simply swipe your fingertip over the sensor for the system recognize you.

The fingerprint sensor uses Softex OmniPass which provides password management capabilities to Microsoft Windows operating systems. OmniPass enables you to use a "master password" for all Windows, applications, and on-line passwords.

OmniPass requires users to authenticate themselves using the fingerprint sensor before granting access to the Windows desktop. This device results in a secure authentication system for restricting access to your computer, applications, web sites, and other password-protected resources.

OmniPass presents a convenient graphical user interface, through which you can securely manage passwords, users, and multiple identities for each user.



CERTAIN MODELS SUPPORT PRE-BOOT AUTHENTICATION OR PBA. PBA ALLOWS THE USER TO LOG IN PRIOR TO WINDOWS' OWN AUTHENTICATION MECHANISM. A PBA ENVIRONMENT SERVES AS AN EXTENSION OF THE BIOS OR BOOT FIRMWARE AND ALLOWS FOR A MORE SECURE ENVIRONMENT EXTERNAL TO THE OPERATING SYSTEM.

## Getting Started

This section guides you through the preparation of your system for the OmniPass fingerprint recognition application. You will be led through the OmniPass installation process. You will also be led through the procedure of enrolling your first user into OmniPass.

## Installing OmniPass

If OmniPass has already been installed on your system, skip this section and go directly to "User Enrollment" on page 102. You can determine whether OmniPass has already been installed by checking to see if the following are present:

- The gold key-shaped OmniPass icon in the system tray at the bottom right of the screen.
- The Softex program group in the **Programs** group of the **Start** menu

## System Requirements

The OmniPass application requires space on your hard drive; it also requires specific Operating Systems (OS's). The minimum requirements are as follows:

- Windows XP Professional operating system or later
- At least 35 MB available hard disk space

## Installing the OmniPass Application

If OmniPass is already installed on your system, go to "User Enrollment" on page 102. Otherwise continue with this section on software installation.



- INSTALLATION OF THE APPLICATION REQUIRES THAT YOU HAVE AN EXTERNAL OPTICAL DRIVE ATTACHED TO YOUR SYSTEM.
- FOR INSTALLATION, OMNIPASS REQUIRES THAT THE USER INSTALLING OMNIPASS HAVE ADMINISTRATIVE PRIVILEGES TO THE SYSTEM. IF YOUR CURRENT USER DOES NOT HAVE ADMINISTRATIVE PRIVILEGES, LOG OUT AND THEN LOG IN WITH AN ADMINISTRATOR USER BEFORE PROCEEDING WITH OMNIPASS INSTALLATION.

To install OmniPass on your system you must:

- 1 Omnipass is included in the Fujitsu Bonus Apps. To install Omnipass, start the Fujitsu Bonus Apps application from the desktop icon, select Softex Omnipass and click [Install].
- 2 Once OmniPass has completed installation you will be prompted to restart your system. Once your system has rebooted you will be able to use OmniPass. If you choose not to restart immediately after installation, OmniPass will not be available for use until the next reboot.
- 3 The installation program automatically places an icon (Softex OmniPass) in the Windows Control Panel as well as a golden key shaped icon in the taskbar.

## Verifying Information about OmniPass

After you have completed installing OmniPass and restarted your system, you may wish to check the version of OmniPass on your system.

To check the version information of OmniPass:

- 1 From the Windows Desktop, double-click the key-shaped OmniPass icon in the taskbar (usually located in the lower right corner of the screen),  
or,

Click the **Start** button and click **Control Panel**. Double-click **Softex OmniPass** in the Control Panel, and the OmniPass Control Center will appear. If it does not appear, then the program is not properly installed, or,

Click the **Start** button, select **Programs**, and from the submenu select the **Softex** program group, from that submenu click **OmniPass Control Center**.

- 2 Version information is listed on the left side of OmniPass Control center window.

## Uninstalling OmniPass



FOR UNINSTALLATION, OMNIPASS REQUIRES THAT THE USER UNINSTALLING OMNIPASS HAVE ADMINISTRATIVE PRIVILEGES TO THE SYSTEM. IF YOUR CURRENT USER DOES NOT HAVE ADMINISTRATIVE PRIVILEGES, LOG OUT AND THEN LOG IN WITH AN ADMINISTRATOR USER BEFORE PROCEEDING WITH OMNIPASS UNINSTALLATION.

To remove the OmniPass application from your system:

- 1 Click **Start** on the Windows taskbar. Select **Control Panel**.
- 2 Double-click **Add/Remove Programs** (In Windows 7: **Programs and Features**).
- 3 Select **OmniPass**, and then click **Change/Remove**.
- 4 Follow the directions to uninstall the OmniPass application.
- 5 Once OmniPass has finished uninstalling, reboot your system when prompted.

## User Enrollment

Before you can use any OmniPass features you must first enroll a user into OmniPass.

## Master Password Concept

Computer resources are often protected with passwords. Whether you are logging into your computer, accessing email, e-banking, paying bills online, or accessing network resources, you often have to supply credentials to gain access. This can result in dozens of sets of credentials that you have to remember.

During user enrollment a "master password" is created for the enrolled user. This master password "replaces" all other passwords for sites you register with OmniPass.

**Example:** A user, John, installs OmniPass on his system (his home computer) and enrolls an OmniPass user with username "John\_01" and password "freq14". He then goes to his webmail site to log onto his account. He inputs his webmail credentials as usual (username "John\_02" and password "lifebook"), but instead of clicking [Submit], he directs OmniPass to **Remember Password**. Now whenever he returns to that site, OmniPass will prompt him to supply access credentials.

John enters his OmniPass user credentials ("John\_01" and "freq14") in the OmniPass authentication prompt, and he is allowed into his webmail account. He can do this with as many web sites or password protected resources he likes, and he will gain access to all those sites with his OmniPass user credentials ("John\_01" and "freq14"). This is assuming he is accessing those sites with the system onto which he enrolled his OmniPass user. OmniPass does not actually change the credentials of the password protected resource. If John goes to another computer without his OmniPass account to access his webmail, he would need to enter his original webmail credentials ("John\_02" and "lifebook") to gain access. If he attempts his OmniPass user credentials on a system other than a system he's enrolled on, he will not gain access.



THE ENROLLMENT PROCEDURE ASSUMES YOU HAVE NO HARDWARE AUTHENTICATION DEVICES OR ALTERNATE STORAGE LOCATIONS THAT YOU WISH TO INTEGRATE WITH OMNIPASS. IF YOU DESIRE SUCH FUNCTIONALITY, CONSULT THE APPROPRIATE SECTIONS OF THIS DOCUMENT.

## Basic Enrollment

The Enrollment Wizard will guide you through the process of enrolling a user. Unless you specified otherwise, after OmniPass installation the Enrollment Wizard will launch on Windows login. If you do not see the Enrollment Wizard, you can bring it up by clicking **Start** on the Windows taskbar; select **Programs**; select **Softex**; click **Enroll a new user**.

- 1 Click **Enroll** to proceed to username and password verification. By default, the OmniPass Enrollment Wizard enters the credentials of the currently logged in Windows user.

- 2** Enter the password you use to log in to Windows. This becomes the "master password" for this OmniPass user. In most cases, the **Domain:** value will be your Windows computer name. In a corporate environment, or when accessing corporate resources, **Domain:** may not be your Windows computer name. Click [Next] to continue.
- 3** In this step OmniPass captures your fingerprint. See "Enrolling a Fingerprint" on page 104 for more information.
- 4** You will then see a Congratulations screen indicating your completion of user enrollment.
- 5** Click [OK] to exit the OmniPass Enrollment Wizard. You will be asked if you'd like to log in to OmniPass with your newly enrolled user; click [Yes].

## Enrolling a Fingerprint

Enrolling a fingerprint increases the security of your system and streamlines the authentication procedure.

You enroll fingerprints in the OmniPass Control Center. With an OmniPass user logged in, click the Start button > **Select Programs** > **Select Softex** > Select **Enroll a new user**.

- 1** During initial user enrollment, you will be prompted to select the finger you wish to enroll. Fingers that have already been enrolled will be marked by a green check. The finger you select to enroll at this time will be marked by a red arrow. OmniPass will allow you re-enroll a finger. If you choose a finger that has already been enrolled and continue enrollment, OmniPass will enroll the fingerprint, overwriting the old fingerprint. Select a finger to enroll and click [Next].
- 2** It is now time for OmniPass to capture your selected fingerprint. It may take a several capture attempts before OmniPass acquires your fingerprint. Should OmniPass fail to acquire your fingerprint, or if the capture screen times out, click [Back] to restart the fingerprint enrollment process.

Your system has a "swipe" fingerprint sensor. A swipe sensor is small and resembles a skinny elongated rectangle. To capture a fingerprint, gently swipe or pull your fingertip over the sensor (starting at the second knuckle) **towards yourself**. Swiping too fast or too slow will result in a failed capture. The **Choose Finger** screen has a [Practice] button; click it to practice capturing your fingerprint. When you are comfortable with how your fingerprint is captured, proceed to enroll a finger.

- 3 Once OmniPass has successfully acquired the fingerprint, the **Verify Fingerprint** screen will automatically appear. To verify your enrolled fingerprint, place your fingertip on the sensor and hold it there as if you were having a fingerprint captured. Successful fingerprint verification will show a green fingerprint in the capture window and the text **Verification Successful** under the capture window.
- 4 After you finish enrolling and verifying your fingerprints, you have the option to **Enable PBA with enrolled finger**. If you enable this option, then you must choose two fingers to save in PBA. If you have enrolled successfully, the **Finger Enrollment Status in PBA** screen will state Finger saved in PBA successfully.



IF YOU ENABLE PBA ON YOUR SYSTEM, YOU MUST SET THE SUPERVISOR PASSWORD AND PASSWORD ON BOOT SETTINGS. SEE "HARD DISK DRIVE PASSWORDS" ON PAGE 61 FOR ADDITIONAL INFORMATION.

## Using OmniPass

You are ready to begin using OmniPass. Used regularly, OmniPass will streamline your authentications.

### Password Replacement

You will often use the password replacement function. When you go to a restricted access website (e.g., your bank, your web-based email, online auction or payment sites), you are always prompted to enter your login credentials. OmniPass can detect these prompts and you can teach OmniPass your login credentials. The next time you go to that website, you can authenticate with your fingerprint to gain access.

### OmniPass Authentication Toolbar

After installing OmniPass and restarting, you will notice a dialog you have not seen before at Windows Logon. This is the OmniPass Authentication Toolbar, and it is displayed whenever the OmniPass authentication system is invoked. The OmniPass authentication system may be invoked frequently: during Windows Logon, during OmniPass Logon, when unlocking your workstation, when resuming from hibernate, when unlocking a password-enabled screensaver, during password replacement for remembered site or application logins, and more. When you see this toolbar, OmniPass is prompting you to authenticate.

The **Logon Authentication** window indicates what OmniPass-restricted function you are attempting. The icons in the lower left (fingerprint and key) show what authentication methods are available to you. Selected authentication methods are highlighted while unselected methods are not. When you click the icon for an unselected authentication method, the authentication prompt associated with that method is displayed.

When prompted to authenticate, you must supply the appropriate credentials: an enrolled finger for the fingerprint capture window or your master password for the master password prompt (the key icon).

## Remembering a Password

OmniPass can remember any application, GUI, or password protected resource that has a password prompt.

Using the following procedure, you can store a set of credentials into OmniPass. These credentials will then be linked to your "master password" or fingerprint.

Go to a site that requires a login (username and password), but *do not log in yet*. At the site login prompt, enter your username and password in the prompted fields, but *do not enter the site* (do not hit [Enter], [Submit], [OK], or Login). Right-click the OmniPass system tray icon and select **Remember Password** from the submenu. The Windows arrow cursor will change to a golden key OmniPass cursor. Click the OmniPass cursor in the login prompt area, but don't click [Login] or [Submit].

## Associating a Friendly Name

After clicking the OmniPass key cursor near the login prompt, OmniPass will prompt you to enter a "friendly name" for this site. You should enter something that reminds you of the website, the company, or the service you are logging into. In its secure database, OmniPass associates this friendly name with this website.

## Additional Settings for Remembering a Site

When OmniPass prompts you to enter a "friendly name" you have the opportunity to set how OmniPass authenticates you to this site. There are three settings for how OmniPass handles a remembered site.

The default setting is **Automatically click the "OK" or "Submit" button for this password protected site once the user is authenticated**. With this setting, each time you navigate to this site OmniPass will prompt you for your master password or fingerprint authentication device. Once you have authenticated with OmniPass, you will automatically be logged into the site.

Less secure is the option to **Automatically enter this password protected site when it is activated. Do not prompt for authentication.** Check the upper box to get this setting, and each time you navigate to this site OmniPass will log you into the site without prompting you to authenticate.



THIS SETTING IS MORE CONVENIENT IN THAT WHENEVER YOU GO TO A SITE REMEMBERED WITH THIS SETTING, YOU WILL BYPASS ANY AUTHENTICATION PROCEDURE AND GAIN INSTANT ACCESS TO THE SITE. BUT SHOULD YOU LEAVE YOUR SYSTEM UNATTENDED WITH YOUR OMNIPASS USER LOGGED IN, ANYONE USING YOUR SYSTEM CAN BROWSE TO YOUR PASSWORD PROTECTED SITES AND GAIN AUTOMATIC ACCESS.

If you uncheck both boxes in **Settings for this Password Site**, OmniPass will prompt you for your master password or fingerprint authentication device. Once you have authenticated with OmniPass your credentials will be filled in to the site login prompt, but you will have to click the website [OK], [Submit], or [Login] button to gain access to the site.

Click **Finish** to complete the remember password procedure. The site location, the credentials to access the site, and the OmniPass authentication settings for the site are now stored in the OmniPass secure database. The OmniPass authentication settings (**Settings for this Password Site**) can always be changed in **Vault Management**.

### **Logging in to a Remembered Site**

Whether or not OmniPass prompts you to authenticate when you return to a remembered site is determined by **Settings for this Password Site** and can be changed in **Vault Management**.

The following cases are applicable to using OmniPass to login to: Windows, remembered web sites, and all other password protected resources.

#### **With Master Password**

Once you return to a site you have remembered with OmniPass, you may be presented with a master password prompt. Enter your master password and you will be allowed into the site.

#### **Logging into Windows with a Fingerprint Device**

When logging into Windows with a fingerprint device, the fingerprint capture window will now appear next to the Windows Login screen. Place your enrolled fingertip on the sensor to authenticate. You will be simultaneously logged into Windows and OmniPass. The capture window will also appear if you have used **Ctrl-Alt-Del** to lock a system, and the fingerprint device can be used to log back in as stated above.



IF A MACHINE IS LOCKED AND OMNIPASS DETECTS A DIFFERENT USER LOGGING BACK IN WITH A FINGERPRINT, THE FIRST USER WILL BE LOGGED OUT AND THE SECOND USER LOGGED IN.

## Password Management

OmniPass provides an interface that lets you manage your passwords. To access this GUI, double-click the OmniPass key in the system tray. Click **Vault Management**; you will be prompted to authenticate. Once you gain access to **Vault Management**, click **Manage Passwords** under **Vault Settings**. You will see the **Manage Passwords** interface, with a list of friendly names.

You can view credentials stored for any remembered website by highlighting the desired resource under **Password Protected Dialog** and clicking **Unmask Values**. Should a password be reset, or an account expire, you can remove stored credentials from OmniPass. Highlight the desired resource under **Password Protected Dialog** and click **Delete Page**. You will be prompted to confirm the password deletion.

The two check boxes in **Manage Passwords** govern whether OmniPass prompts you to authenticate or directly logs you into the remembered site.

OmniPass will overwrite an old set of credentials for a website if you attempt to use **Remember Password** on an already remembered site.

The exception to the above rule is when resetting the Windows password. If your password is reset in Windows, the next time you login to Windows, OmniPass will detect the password change and prompt you to "Update" or "Reconfirm" the password with OmniPass. Enter your new Windows password in the prompt and click **OK**. Your OmniPass "master password" will still be your Windows password.

## OmniPass User Identities

Identities allow OmniPass users to have multiple accounts to the same site (e.g., *bob@biblomail.com* and *boballen@biblomail.com*). If OmniPass did not provide you identities, you would be limited to remembering one account per site.

To create and manage identities, double-click the OmniPass key in the system tray. Click **Vault Management**; OmniPass will prompt you to authenticate. Once you gain access to **Vault Management**, click **Manage Identities** under **Vault Settings**. You can only manage the identities of the currently logged in OmniPass user.

To add a new identity, click **New Identity** or double-click **Click here to add a new identity**. Name the new identity and click [OK], then click [Apply]. You can now switch to the new identity and start remembering passwords.

To delete an identity, highlight the identity you want to delete and click [Delete Identity], then [Apply].



WHEN YOU DELETE AN IDENTITY, ALL OF ITS ASSOCIATED REMEMBERED SITES AND PASSWORD PROTECTED DIALOGS ARE LOST.

To set the default identity, highlight the identity you want as default and click [Set as Default]; click [Apply] to ensure the settings are saved. If you log in to OmniPass with a fingerprint device, you will automatically be logged in to the default identity for that OmniPass user. You can choose the identity with which you are logging in if you login using "master password".

### Choosing User Identity during Login

To choose your identity during login, type your username in the **User Name:** field. Press [Tab] and see that the **Domain:** field self-populates. Click the **Password:** field to bring the cursor to it, and you will see the pull-down menu in the **Identity:** field. Select the identity to login as, then click **OK**.

### Switch User Identity

To switch identities at any time, right-click the OmniPass system tray icon and click **Switch User Identity** from the submenu. The **Switch Identity** dialog will appear. Select the desired identity and then click **OK**.

### Identities and Password Management

On the **Manage Passwords** interface of the **Vault Management** tab of the OmniPass Control Center, there is a pull-down selection box labeled, **Identity**. This field lets you choose which identity you are managing passwords for. When you select an identity here, only those password protected dialogs that are associated with that identity are shown. You can perform all the functions explained in "Password Management" on page 108.

## Configuring OmniPass

This section gives an overview of both the Export/Import function and the OmniPass Control Center.

### Exporting and Importing Users



YOU CANNOT IMPORT A USER INTO OMNIPASS IF THERE ALREADY IS A USER WITH THE SAME NAME ENROLLED IN OMNIPASS.

Using OmniPass Control Center, you can export and import users in and out of OmniPass. The export process backs up all remembered sites, credentials, and enrolled fingerprints for an OmniPass user. All OmniPass data for a user is backed up to a single encrypted database file. During the import process, the Windows login of the exported user is required. If the proper credentials cannot be supplied, the user profile will not be imported.



- YOU SHOULD PERIODICALLY EXPORT YOUR USER PROFILE AND STORE IT IN A SAFE PLACE. IF ANYTHING HAPPENS TO YOUR SYSTEM, YOU CAN IMPORT YOUR OMNIPASS PROFILE TO A NEW SYSTEM AND HAVE ALL YOUR REMEMBERED SETTINGS AND FINGERPRINTS INSTANTLY.
- YOU DON'T FORGET THE WINDOWS LOGIN CREDENTIALS WHEN EXPORTING. WHEN YOU EXAMINE THE IMPORTATION, YOU ARE PROMPTED FOR AUTHENTICATION. THE CREDENTIALS THAT WILL ALLOW A USER PROFILE TO BE IMPORTED ARE THE WINDOWS LOGIN CREDENTIALS OF THE EXPORTED USER. THEY ARE THE CREDENTIALS THAT HAD TO BE SUBMITTED WHEN THE USER PROFILE WAS EXPORTED. YOU WILL NEED USER NAME, PASSWORD, AND DOMAIN.

### Exporting an OmniPass User Profile

To export a user, open OmniPass Control Center, and click **Run User Management Wizard**.

Click **Backup a user's OmniPass profile**. OmniPass will prompt you to authenticate. Upon successfully authentication, you must name the OmniPass user profile and decide where to save it. An .opi file is generated, and you should store a copy of it in a safe place.

This .opi file contains all your user specific OmniPass data, and it is both encrypted and password protected. This user profile does NOT contain any of your encrypted data files.

## Importing an OmniPass User Profile

To import an OmniPass user open the OmniPass Control Center, and click **Run User Management Wizard**. Click **Restore a user's OmniPass profile**. OmniPass will then prompt you to browse for the file you had previously exported (.opi file). When you select the .opi file for importation, OmniPass will prompt you for authentication. The credentials that will allow a user profile to be imported are the Windows login credentials of the exported user. They are the credentials that had to be submitted when the user profile was exported. You will need User Name, Password, and Domain. If you don't remember the value for Domain, in a PC or SOHO environment Domain should be your computer name.

OmniPass will notify you if the user was successfully imported.

## Things to Know Regarding Import/Export

- Assume you export a local Windows User profile from OmniPass. You want to import that profile to another machine that has OmniPass. Before you can import the profile, a Windows user with the same login credentials must be created on the machine importing the profile.

**Example:** I have a Windows user with the username "Tom" and the password "Sunshine" on my system. I have enrolled Tom into OmniPass and remembered passwords. I want to take all my passwords to new system. I export Tom's OmniPass user profile. I go to my new system and using the Control Panel I create a user with the username "Tom" and the password "Sunshine". I can now successfully import the OmniPass user data to the new system.

- If you export an OmniPass-only user, you can import that user to any computer running OmniPass, provided that a user with that name is not already enrolled in OmniPass.
- If you attempt to import a user profile who has the same name as a user already enrolled in OmniPass, the OmniPass import function will fail.

## OmniPass Control Center

The Omnipass Control Center allows you to perform a variety of Omnipass "housekeeping" tasks. For details about the features offered by the Control Center:

- 1 Go to Start > All Programs > Softex > Omnipass Control Center.
- 2 When the Omnipass Control Center opens, click the Help link on the left side of the Control Center window.

## Troubleshooting

You cannot use OmniPass to create Windows users. You must first create the Windows user, and you will need administrative privileges to do that. Once the Windows user is created, you can add that user to OmniPass using the same username and password

### Cannot add Windows users to OmniPass

If you experience difficulties adding a Windows user to OmniPass, you may need to adjust your local security settings. You can do this by going to **Start, Control Panel, Administrative Tools, and Local Security Settings**. Expand **Local Policies**, expand **Security Options**, and double-click **Network Access: Sharing and Security Model for Local Accounts**. The correct setting should be *Classic - Local Users Authenticate as Themselves*.

### Cannot add a User with a Blank Password to OmniPass

If you experience difficulties adding a user with a blank password to OmniPass, you may need to adjust your local security settings. First attempt the procedure explained in the *Cannot add Windows user to OmniPass* section. If the difficulties persist, then try the following procedure.

Click **Start, Control Panel, Administrative Tools, and Local Security Settings**. Expand **Local Policies**, expand **Security Options**, and double-click **Accounts: Limit local account use of blank passwords to console login only**. This setting should be set to **Disabled**.

### Dialog appears after OmniPass authentication during Windows Logon

After installing OmniPass on your system, you can choose to logon to Windows using OmniPass. You authenticate with OmniPass (via master password, or an enrolled security device) and OmniPass logs you into Windows. You may, during this OmniPass authentication, see a **Login Error** dialog box.

This dialog box occurs when OmniPass was unable to log you into Windows with the credentials supplied (username and password). This could happen for any of the following reasons:

- Your Windows password has changed
- Your Windows account has been disabled

If you are having difficulties due to the first reason, you will need to update OmniPass with your changed Windows account password. Click **Update Password** and you will be prompted with a dialog to reconfirm your password.

Enter the new password to your Windows user account and click **OK**. If the error persists, then it is unlikely the problem is due to your Windows user account password changing.

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