



FC300 Handheld

Getting Started Guide

Identification

FC300 Handheld Getting Started Guide
12/19/2011 TDC-0898-004

Copyright

© 2009-2011 Itron, Inc. All rights reserved.

Confidentiality Notice

The information contained herein is proprietary and confidential and is being provided subject to the condition that (i) it be held in confidence except to the extent required otherwise by law and (ii) it will be used only for the purposes described herein. Any third party that is given access to this information shall be similarly bound in writing.

Trademark Notice

Itron is a registered trademark of Itron, Inc.

All other product names and logos in this documentation are used for identification purposes only and may be trademarks or registered trademarks of their respective companies.

Suggestions

If you have comments or suggestions on how we may improve this documentation, send them to

TechnicalCommunicationsManager@itron.com

If you have questions or comments about the software or hardware product, contact Itron Technical Support:

Contact

Corporate

- Internet: www.itron.com
- E-mail: support@itron.com
- Phone: 1.877.487.6602

Customer Support

- Internet: support.itron.com
- For a list of supporting offices, click **Support Service > Contact Customer Support**.

Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference that may cause undesirable operation.

USA, FCC Class B - Part 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Compliance Statement Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Déclaration de Conformité

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure

This device must be held away from the body such that it retains a minimum distance of 20 centimeters (7.87 inches) from all persons in order to comply with FCC and IC RF exposure levels.

Specific Absorption Rate Data

The FCC ID:EO9FC300SR/IC:864A-FC300SR model of this handheld meets the government's requirements for exposure to radio waves.

Your FC300 SRead has a radio transmitter and receiver. It is designed and manufactured not to exceed limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government and by the Canadian regulatory authorities. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age or health.

The exposure standard for wireless mobile and/or portable devices employs a unit of measurement known as the specific absorption rate, or SAR. The SAR limit set by the FCC and by the Canadian regulatory authorities is 1.6 W/kg¹. Tests for SAR are conducted using standard operating positions accepted by the FCC and by Industry Canada with the FC300 SRead transmitting at its highest certified power level in all test frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the FC300 SRead while operating can be well below the maximum level. This is because the FC300 SRead is designed to operate at multiple power levels, depending on the needs of the customer.

Before an FC300 SRead model is available for sale to the public in the U.S. and Canada, it must be tested and certified to the FCC and Industry Canada that it does not exceed the limit established by each government for safe exposure. The tests are performed in positions and locations (for example, worn on the body) and reported to the FCC and made available for review by Industry Canada. The highest SAR value for this FC300 SRead model when tested for use when worn on the body as described in this document is 0.721 W/kg. While there may be differences between the SAR levels of various FC300 SRead models and at various positions, they all meet the government requirements for safe exposure. Please note that improvements to this product model could cause differences in the SAR value for later products; and in all cases, products are designed to be within the guidelines.

¹ In the United States and Canada, the SAR limit for wireless mobile and/or portable devices used by the public is 1.6 W per kilogram averaged over 1 g of tissue. The standard incorporates a substantial margin of safety to get additional protection for the public and to account for any variations in measurements.



Warning Use this device only in a manner consistent with this document.

Electromagnetic Compatibility

Use only approved accessories with this equipment. Unapproved modifications or operation beyond or in conflict with these instructions for use, may void authorization by the authorities to operate the equipment.

Lithium Ion Battery Warning



Warning Follow these procedures to avoid injury to yourself or others:

- The lithium battery may cause a fire or chemical burn if it is not disposed of properly.
- Do not recharge, disassemble, or heat above 158° Fahrenheit (70° Celsius), or incinerate the lithium battery.
- Keep the lithium battery away from children.
- Replace the lithium battery only with batteries meeting Itron specifications. Any other battery may cause a fire or explosion.

Laser Warning



Warning The imager uses laser light.

- Do not look into the laser's lens.
- Do not stare directly into the laser beam.
- Do not remove the laser caution labels from the FC300.
- Do not connect the laser bar code aperture to any other device. The laser bar code aperture is certified for use with the FC300 only.
- Avoid exposure; laser radiation is emitted from the imager aperture.
- Laser radiation is possible when open. Please read the caution labels. Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Waste Electrical and Electronic Equipment



Important This symbol is placed on the product to remind users to dispose of Waste Electrical and Electronic Equipment (WEEE) appropriately, per Directive 2002-96-EC. In most areas, this product can be recycled, reclaimed and re-used when properly discarded. Do not discard labeled units with trash.

Support and Maintenance

For questions about your FC300, contact Itron Technical Support at 1.877.487.6602.

To return for maintenance, an RMA (return materials authorization) can be obtained at <http://support.itron.com>.

Contents

Introduction	1
Unpacking the FC300 Handheld Computer.....	1
Getting Familiar with Your FC300	2
Front View	2
Back View with Hand Strap	3
Back View of Battery Compartment	3
Top View	4
Bottom View	5
LED Status Indicators.....	5
Battery Charging LED	6
Bluetooth LED	6
System Status LED	7
Setting Up a New FC300.....	7
Hand Strap	8
Installing the Battery	9
Charging the Battery	9
External Power Supply	10
USB Client Y Cable	11
Applying External Power to the FC300	12
Power On/Suspend/Off the FC300.....	12
Resetting the FC300.....	13
Batteries	15
Backup Battery	16
Replacing the Battery	17
Controls	19
Keypad	19
Modifier Keys.....	20
Keys and Key Sequence.....	21
Accented Keys	24
Taskbar Icons	25
Calibrating the Touch Screen.....	26
Calibrating the Double-Tap.....	28

- Disabling/Enabling the Touch Screen 29
- Input Panel 31
- Setting Owner Information..... 32
- Setting the Device Name..... 35
- Setting the Date/Time..... 36
- Setting Power Schemes 37
- Setting Speaker Sounds and Volume 40
- Using the Flashlight..... 43
- Backlight Settings 44
 - Keypad Backlight 44
 - Touch Screen Backlight 45
- Accessories 47**
 - Setting the Radio..... 47
 - Antenna Types 48
 - Attaching the Antenna..... 49
 - Wireless Wide Area Network (WWAN) 49
 - Setting Up Wi-Fi 50
 - Bluetooth Devices 54
 - Setting Up a Bluetooth Device 54
 - GPS 59
 - Imager 60
 - Holster 61
 - Holster Belt..... 62
 - Attaching Holster to Belt..... 62
 - Carry Case 65
 - Front and Back Views 66
 - Top and Bottom Views 67
 - Charging an FC300 from a Vehicle 67
 - Applying the Touch Screen Protective Film 68
- Maintenance..... 69**
 - Cleaning 69
 - Batteries 69
 - Exposure to Moisture 70
- Troubleshooting 70**
 - SD Card..... 70

Itron Applications	70
Index	71

Introduction

This document contains information to help you get started using your Itron FC300 series (FC300 and FC300 with SRead radio) handheld computer. For additional information, refer to the FC300's online help (select **Windows logo > Help**), or the documentation/online help for your FC300 Itron software application (MV-RS, Field Collection System, Endpoint-Link, Endpoint-Link Pro, Field Deployment Manager).

Refer to the *FC300 Docks User Guide* for information on installing and using the FC300 desk dock, the FC300 multi-dock, and the FC300 vehicle dock.



Note Except where otherwise stated, this guide uses the terms *FC300* and *handheld* inclusively, to refer to the FC300 and FC300 with SRead radio computers.


Unpacking the FC300 Handheld Computer

Make sure you have these items in your FC300 package:

- FC300 handheld computer
- One tethered stylus (attached)
- One tethered system I/O (input/output) port cover (attached)
- Hand strap (installed)
- Lithium-ion battery pack

Optional items:

- SRead radio (installed)
- 8¼ inch SRead antenna (included with SRead units)
- 2½ inch SRead antenna (included with SRead and imager units)
- GPS (internal installation)
- Imager (internal installation)
- Laser warning labels (only if imager is included) are already applied to the FC300 in the appropriate language; discard the remaining laser warning labels in other languages if not needed.

 **Note** Communication docks, power supply, and cabling are ordered and packaged separately; see the *FC300 Docks User Guide*.

Getting Familiar with Your FC300

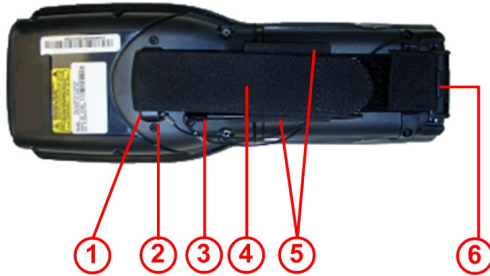
The following illustrations identify the main features of the FC300.

Front View



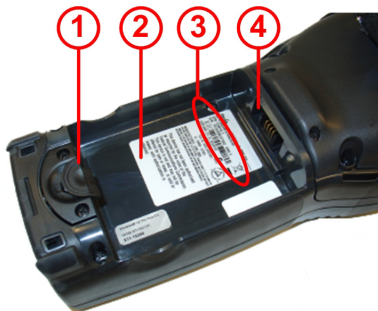
- | | |
|---------------------|----------------------------|
| 1 Touch screen | 5 Alpha keys |
| 2 F1 and F2 buttons | 6 Flashlight toggle on/off |
| 3 Speaker | 7 Power/suspend/resume key |
| 4 Numeric keys | |

Back View with Hand Strap



- 1 Hand strap, upper connector on hand strap base
- 2 Stylus tether (using hand strap upper connector as anchor)
- 3 Stylus
- 4 Hand strap (adjustable end)
- 5 Stylus holders on hand strap (available on both left and right sides)
- 6 Hand strap, lower connector inserts into opening on bottom of FC300

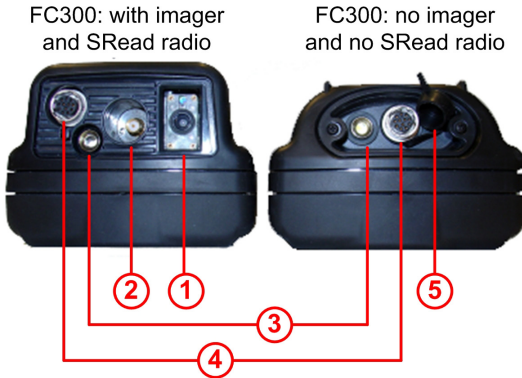
Back View of Battery Compartment



- 1 Battery well access tab
- 2 Battery well
- 3 FC300 serial number
- 4 Battery well terminals

Top View

The following picture shows top views of two FC300s with different options. Note the difference in depth (front to back) of the two examples.



- 1 Imager (optional)
- 2 Antenna connection (only FC300s with SRead radio or imager)
- 3 Flashlight
- 4 Hirose connector (uncovered)
- 5 Outlet cover

Bottom View



- 1 Opening for lower hand strap connector
- 2 IO (input/output) connector (uncovered)

LED Status Indicators

The FC300 has three light-emitting diode (LED) status indicators located at the top of the keypad. The LEDs light up when a particular function of the computer is active.



- 1 Battery charging status LED indicator
- 2 Bluetooth status LED indicator
- 3 System status LED indicator

Battery Charging LED

The Battery Charging Status LED indicates the main battery charging status.

Light	Description
Off	No charge. The battery is not being charged by AC power or is not present.
Blinking red	Fault. The battery pack has faulted or failed.
Yellow/amber	Standby. The battery pack temperature is out of range.
Red	Charging. The battery pack is charging (icon on touch screen).
Green	Charged. The battery pack is fully charged and connected to external power.

Bluetooth LED

The Bluetooth Status LED applies to Bluetooth functions.

Light	Description
Blinking slow (~ every 4 seconds)	Bluetooth is active, but not connected to a device.
Blinking medium (~ every 2 seconds)	Bluetooth is paired and connected to a device.
Blinking fast (~ every 1 second)	Bluetooth is discovering other Bluetooth devices.
Not lit	Bluetooth hardware is turned off.

System Status LED

The System Status LED indicates power management status.

Light	Description
Blinking red	Battery power failure; critical suspend.
Solid red	Main battery is low.
Blinking green	FC300 is in System Idle. The display is turned off, but the FC300 is still powered on. For details, see Setting Power Schemes on page 37.
Yellow/amber	Initial few seconds when Power key is pressed.
<i>off</i>	<i>None of the above.</i>

Setting Up a New FC300

There are several hardware and software setup tasks to complete prior to using a new FC300. Use the following checklists to perform the task, in the order provided.

Hardware Setup Checklist

√	Task	Description	See
	1	Connect or apply optional accessories.	<ul style="list-style-type: none"> • Attaching the Antenna on page 49 (optional). • Applying the Touch Screen Protective Film on page 68 (optional).
	2	Connect cables.	External Power Supply on page 10.
	3	Insert the battery.	Installing the Battery on page 9.
	4	Charge the battery.	Charging the Battery on page 9.
	5	Power on the FC300.	Power on/suspend/off the FC300 on page 12.

Software Setup Checklist

√	Task	Description	See
	1	Calibrate the touch screen.	Calibrating the Touch Screen on page 26.
	2	Set device name.	Setting the Device Name on page 35.
	3	Set owner information.	Setting Owner Information on page 32.
	4	Set date and time zone.	Setting the Date/Time on page 36.
	5	Set power scheme timers.	Setting Power Schemes on page 37.
	6	Set speaker sounds and volume.	Setting Speaker Sounds and Volume on page 40.
	7	Set peripheral options.	<ul style="list-style-type: none">• Using the Flashlight on page 43.• Enabling GPS on page 59.• Setting up a Bluetooth Device on page 54.

Hand Strap

A lightweight elastic hand strap provides a means to secure the FC300 to your hand. The hook and loop fabric strap is adjustable to fit most hands.

The hand strap covers the battery well and must be temporarily unattached at the bottom of the FC300 to provide access.

To detach the hand strap

1. Hold the FC300 firmly with one hand and grasp the bottom of the hand strap just above the clip pins.
2. Firmly pull away from the FC300 until the hand strap is free of the bottom.

Installing the Battery

The FC300's lithium-ion (Li-Ion) battery is sealed in a separate bag during shipping. Remove the battery from its packing before installation. A spare main battery can be ordered from Itron to carry and replace while in the field, if necessary. For more details, see [Batteries](#) on page 15.

Be sure to fully charge the battery before powering on the FC300; see [Charging the Battery](#) on page 9.

To install the battery

1. Detach the bottom hook of the hand strap.
2. Tilt the end (with the extended terminals) of the fully charged battery into the upper end of the battery well. Press and slide the battery locking latch toward the bottom of the unit and seat the battery until it clicks into place and is firmly seated in the battery well. Release the battery locking latch.
3. Reattach the hand strap.


Charging the Battery

Before you power on the FC300, the main battery must be fully charged. You can charge the battery while it is in the FC300 or while in the spare battery charging compartment available on the desk dock.

To charge the battery

1. Apply power to the FC300—with battery installed—through direct cabling (see [External Power Supply](#) on page 10) or by using a dock (see the *FC300 Docks User Guide*).
 - A new battery or fully depleted battery completely charges in approximately four hours.
 - If using a desk dock, the battery in the FC300 and a spare battery in the spare battery charging compartment are charged at the same time.
2. When the battery LED is green, the battery is fully charged; see [Battery Charging LED](#) on page 6.

After you have turned on the FC300, you can check battery status details (see [Batteries](#) on page 15).

- Double-click the battery gauge icon  in the FC300's system tray.

or

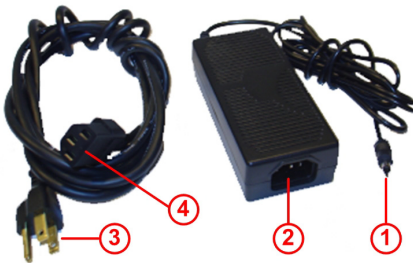
- Select **Windows logo > Settings > Control Panel > Battery**.



Note From within an Itron software application, the battery gauge icon or the Control Panel may not be accessible. Check the Itron software application documentation for how to view battery status from within the application.

External Power Supply

The FC300 receives AC power from the AC power unit. This external power supply can be used with the USB client Y cable to charge the FC300 battery and communicate via synchronization software (for Windows XP or earlier operating systems, use ActiveSync; for Windows Vista or later operating systems, use Windows Mobile Device Center) with a host PC.



- 1 Single-pin cable end of AC power unit.
- 2 AC receptacle for AC power unit.
- 3 Wall plug to power the AC power unit.
- 4 Connector to AC power unit (insert into 2).

To assemble the AC power unit

1. Plug the connector to AC power supply (4) into the AC receptacle for the AC power unit (2).
2. Plug the wall plug (3) into a wall outlet.

USB Client Y Cable

The USB client Y cable provides a connection between the host PC via USB (using synchronization software) and the FC300. An AC adapter pin provides the connector to external power.

This cable setup can be used if not using a dock.



- 1 Single-pin AC adapter to connect to external power
- 2 I/O connector for the FC300
- 3 USB type A plug to connect to the host PC

Applying External Power to the FC300

Before beginning, review the setup for the AC power unit (see [External Power Supply](#) on page 10) and the features of the [USB client Y cable](#) on page 11.

To apply external power to the FC300

1. Using the USB client Y cable, pinch the catch/release latches on the I/O connector until they are open.
2. Connect the I/O connector to the bottom of the FC300, matching the shape of the connectors.
3. Release the catch/release latches.
4. Insert the single-pin cable end of the AC power unit into the single-pin AC adapter from the USB client Y cable.
5. Plug the AC power unit into a wall outlet power source.
6. Insert the USB type A plug from the USB client Y cable into the USB host port on the PC.

Power On/Suspend/Off the FC300

The FC300 has three power modes.

- **On.** The keyboard, touch screen, and all peripherals function normally. The touch screen backlight is on until the User Idle timer expires. The touch screen does not turn off until the System Idle timer expires. For information about the idle timers, see [Setting Power Schemes](#) on page 37. The FC300 remains in the On state as long as any of the following activity occurs:
 - Pressing any key on the keypad, except **Power**.
 - Tapping the touch screen.
 - Incoming data through the scanner port.

- **Suspend.** Occurs when the FC300 is inactive for a predetermined period of time (see [Setting Power Schemes](#) on page 37), the user presses **Power** when the FC300 is already on, or selects **Windows logo > Suspend**. The FC300 remains in the Suspend state until any of these wake-up events occur:
 - Pressing **Power**.
 - External power is applied.
- **Off.** Occurs when the main battery and the backup battery are depleted. You never *turn off* the FC300; you only *suspend* it.

To power on the FC300

- Press **Power**.

To suspend the FC300

- Press **Power**, or from the FC300 desktop, select **Windows logo > Suspend**.

Resetting the FC300

If your FC300 does not respond as expected (such as locks up or fails to operate), a reset may correct the issue. There are two types of reset:

- **Soft Reset**—also referred to as a *warm boot*—does not affect the operating system and no saved data is lost. If done within an application, that application closes any data that was not saved prior to the soft reset.
- **Hard Reset**—also referred to as a *cold boot*—returns the handheld to its original configuration. Data that was not previously saved may be lost.



Caution When you perform a hard reset, you may lose some settings saved in the operating system, as well as non-saved data stored in RAM. (This is not an issue with Itron software applications as they are installed in non-volatile memory and data is written to the disk when entered). When you restart, you may have to reenter the time, date, and personal data, and recalibrate your touch screen. Because of the extreme nature of a hard reset, you should consider it an emergency procedure only—use a soft reset instead, whenever possible.

To perform a soft reset


- Press the **Orange Z F1** keys sequentially. The screen dims while the FC300 carries out the soft reset.

To perform a hard reset

- Hold down **Power** for approximately 15 seconds or until the screen dims. The FC300 is powered off; press **Power** to it turn on.

Batteries

The FC300 uses a replaceable Lithium-Ion (Li-Ion) battery pack from Itron as the main battery. Under normal conditions, a fully charged battery should last for a full eight hour work shift before requiring a recharge.

A battery gas gauge icon  resides in the FC300's system tray—if enabled—and shows four levels of charge: 100%, 75%, 50%, and 25%. At any level below 25%, the system status LED and the battery gas gauge icon turn red indicating low battery. A depleted battery can be replaced in the field with a fully charged battery; see [Replacing the Battery](#) on page 17.

The main battery is charged/recharged when the FC300 is seated in a powered dock or directly cabled to an external power source.



Tip Frequent connection to an external power source—through a dock or a cable—is recommended to maintain the backup battery charge. The backup battery cannot be recharged by a dead or missing main battery.

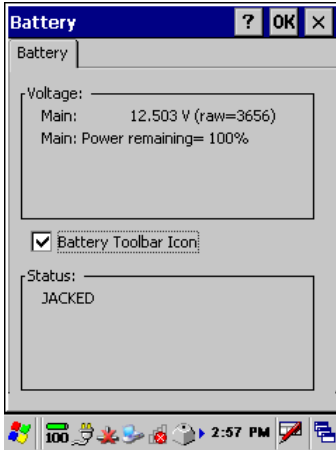
The FC300 main battery well is on the back of the unit. The battery case serves as the back cover for the battery well.

To display the battery gas gauge icon

1. Select **Windows logo > Settings > Control Panel > Battery**.
2. Select the **Battery Toolbar Icon** so the battery gas gauge displays in the FC300 system tray.

If cleared, the icon does not appear.

The Status area shows JACKED if the main battery is receiving external power.



3. Select **OK**.
4. Close the Control Panel to return to the desktop.

Backup Battery


The FC300 uses an internal backup battery to retain data for five minutes while the depleted main battery is removed and replaced with a fully charged battery.



Caution If the backup battery charge is Low, there is a risk of losing data when replacing the main battery (though Itron software applications do not lose data due to a power loss or low battery charge). Before replacing the main battery, see [To check the backup battery status on page 16](#).

The backup battery draws power from the main battery to maintain a charge. If there is no main battery in the unit, the backup battery temporarily provides power to maintain RAM and other vital settings. After the main battery is installed, the backup battery begins to draw power from the main battery again.

To check the backup battery status

1. From the desktop, double-tab the battery icon () or select **Windows logo > Settings > Control Panel > Power**.
2. Select the **Battery** tab.
3. View the **Backup battery** status. If Low or Very Low, do not replace the main battery unless on external power.
4. Select **OK**.
5. Close the Control Panel to return to the desktop.

Replacing the Battery

Before replacing the battery, you must:

- Have a fully charged battery as a replacement.
- Be sure the backup battery charge is greater than Low. If not, connect the unit to external power before removing the depleted battery. See "[To check the backup battery status](#)" on page 16.
- Save any work in progress.

To replace the battery

1. Detach the bottom hook of the hand strap, if installed.
2. Press and slide the battery locking latch toward the bottom of the unit to release the main battery pack.
3. Pull the battery up and out of the battery well with a hinge motion.

4. Tilt the end (with the extended terminals) of the fully charged battery into the upper end of the battery well. Press and slide the battery locking latch toward the bottom of the unit and seat the battery until it clicks into place and is firmly seated in the battery well. Release the locking latch.



5. Reattach the hand strap, if installed.
6. Check the battery status by selecting **Windows logo > Settings > Control Panel > Battery** or as defined from within your Itron software application.

Controls

Once the FC300 is running, get familiar with the keypad and how to use modified keys. Several settings should also be defined based on your needs.

Keypad



- | | | | |
|---|---------------------------------|----|-----------------------|
| 1 | Function keys (F1 and F2) | 8 | Y/Control key (CTRL) |
| 2 | Enter key (ENTER) | 9 | Orange key |
| 3 | Arrow keys | 10 | Blue key |
| 4 | Shift key (SHFT) | 11 | Flashlight key |
| 5 | Tab/Backtab key (TAB) | 12 | Power key |
| 6 | Backspace/Delete key (BKSP/DEL) | 13 | Z/Alternate key (ALT) |
| 7 | Space/Escape key (SPC/ESC) | | |






Modifier Keys

The SHFT (shift), Orange, and Blue keys are considered modifier keys; they modify the action of another key. For example:

Key	initial key	with Orange key	with Blue key
Action	SPC (space)	Esc (escape)	- (hyphen or minus)

Usually a modifier key is used *sequentially* with another key; the keys are not pressed simultaneously unless indicated in this document with a + between the keys.

The following icons appear in the taskbar to indicate usage.

Icon	Indicates
	CapsLock is active.
	No modifier key is active.
	Blue modifier key is active.
	Orange modifier key is active.
	Shift key is active.

If a modifier key is active, it remains active until another key is pressed. For example:

1. Press **Blue I** to enter an *.
 2. Press **I** again and the letter i (lowercase) appears.
- or
1. Press **SHFT H** to enter an uppercase H.
 2. Press **H** again and a lowercase h appears.

In some cases of a modifier key sequence—such as Caps (CapsLock)—the state is active until the key sequence is toggled off. For example:

1. Press **Orange O** to activate Caps (uppercase).
2. Press **A**, the A is uppercase; press **B**, the B is uppercase.
3. Press **Orange O** to deactivate Caps.
4. Press **C**, the c is lowercase.

Keys and Key Sequence

Press multiple keys *sequentially*.

To get this function	Press keys in this order			Results/comments
Windows Start Menu	Orange Y	Orange SPC		Standard Windows Start menu (usually CTRL+ESC)
Flashlight	Flashlight key			Toggles flashlight on/off
Warm boot (soft reset)	Orange	Z	F1	Resets the FC300
Enter	ENTER			Complete a process, enter or select a value
On (when off)	Power			Powers on the FC300
Suspend (when on)	Power			Suspend or Resume mode
Volume up	Blue	V	▲ (up arrow)	Increases volume
Volume down	Blue	V	▼ (down arrow)	Decreases volume
Touch screen backlight lighter	Blue	B	▲ (up arrow)	Touch screen backlight is lighter
Touch screen backlight darker	Blue	B	▼ (down arrow)	Touch screen backlight is darker
ALT mode	Orange	Z		Alternate (ALT) mode
CTRL mode	Orange	Y		Control (CTRL) mode
Escape	Orange	SPC		Escape
Space	SPC			Space
Caps Lock	Orange	O (letter)		Toggles Caps Lock on/off

Controls

To get this function	Press keys in this order			Results/comments
Uppercase letter	SHFT			Toggles letter to uppercase or lowercase
Backspace	BKSP			Moves back a space
Tab	TAB			Tabs to next field or item
Back Tab	SHFT or Orange	TAB		Tabs backwards to previous field or item
Cursor up	Up arrow			Moves cursor up a line
Cursor down	Down arrow			Moves cursor down one line
Cursor right	Right arrow			Moves cursor one space to the right
Cursor left	Left arrow			Moves cursor one space to the left
Insert	Orange	I (letter)		Insert mode
Delete	Orange	BKSP		Deletes one character
Home	Orange	◀ (left arrow)		Home
End	Orange	▶ (right arrow)		End
Previous	Orange	▲ (up arrow)		Navigates to previous screen
Next	Orange	▼ (down arrow)		Navigates to next screen
F1	F1			F1
F2	F2			F2
F3	Blue	F1		F3
F4	Blue	F2		F4
F5	Orange	F1		F5
F6	Orange	F2		F6
. (period)	Blue	K		Period
' (single quote)	Blue	H		Single quotation mark
" (double quote)	Blue	G		Double quotation mark
' (apostrophe)	Blue	8		Apostrophe
, (comma)	Blue	N		Comma



To get this function	Press keys in this order			Results/comments
; (semicolon)	Blue	F		Semicolon
: (colon)	Blue	D		Colon
! (exclamation)	Blue	Q		Exclamation point
? (question mark)	Blue	L		Question mark
((left parenthesis)	Blue	O (letter)		Left or open parenthesis
) (right parenthesis)	Blue	P		Right or close parenthesis
_ (underscore)	Blue	M		Underscore or horizontal bar
/ (forward slash)	Blue	J		Forward slash
\ (back slash)	Blue	S		Backward slash
` (grave accent)	Blue	A		Grave accent
@ (at)	Blue	W		At sign
# (number)	Blue	E		Number sign
\$ (dollar)	Blue	R		Dollar sign
% (percent)	Blue	X		Percent sign
^ (caret)	Blue	C		Caret
& (ampersand)	Blue	U		Ampersand
* (asterisk)	Blue	I (letter)		Asterisk
(pipe)	Orange	R		Pipe or vertical bar
< (less than)	Blue	7		Less than sign
> (greater than)	Orange	7		Greater than sign
- (hyphen or minus)	Blue	SPC		Hyphen, dash, or minus sign
+ (plus)	Blue	BKSP		Plus sign
= (equal)	Blue	T		Equal sign
[(left bracket)	Blue	Y		Left square bracket
] (right bracket)	Blue	Z		Right square bracket
{ (left curly bracket)	Orange	S		Left curly bracket
} (right curly bracket)	Orange	T		Right curly bracket
€ (Euro)	Orange	3		Euro sign
£ (British pound)	Blue	3		British pound sign











Accented Keys





To get this result	Press keys in this order		
à è ì ò ù	Orange	A	<i>A or the appropriate letter</i>
À È Ì Ò Ù	Orange	A	SHFT <i>A or the appropriate letter</i>
á é í ó ú ý	Orange	8	<i>A or the appropriate letter</i>
Á É Í Ó Ú Ý	Orange	8	SHFT <i>A or the appropriate letter</i>
â ê î ô û	Orange	C	<i>A or the appropriate letter</i>
Â Ê Î Ô Û	Orange	C	SHFT <i>A or the appropriate letter</i>
ã ñ õ	Orange	N	<i>A or the appropriate letter</i>
Ã Ñ Õ	Orange	N	SHFT <i>A or the appropriate letter</i>
ä ë ï ö ü ÿ	Orange	6	<i>A or the appropriate letter</i>
Ä Ê Ì Ò Ù	Orange	6	SHFT <i>A or the appropriate letter</i>
ı	Blue	9	
ı	Orange	9	
ç	Blue	4	
Ç	Orange	4	
œ	Blue	2	
Œ	Orange	2	
ß	Blue	6	
ø	Blue	0 (zero)	
Ø	Orange	0 (zero)	
å	Blue	5	
Å	Orange	5	
æ	Blue	1	
Æ	Orange	1	

Taskbar Icons

The following icons may appear in the FC300 taskbar. In most cases, double-tapping the icon in the taskbar opens the related application or properties screen.

Up to six icons can display in the taskbar. A blue arrow  or  indicates that more icons are available.

Icon	Indicates
	Bluetooth module is connected to one or more of the targeted Bluetooth devices. See Bluetooth on page 54.
	Any of the following conditions: <ul style="list-style-type: none"> • Bluetooth is off. • The FC300 is not connected to any Bluetooth device. • The FC300 is ready to connect to a Bluetooth device. • The FC300 is out of range for all paired Bluetooth devices; the connection is inactive.
	FC300 is using external power. See Setting Power Schemes on page 37.
	Charge status of the main battery. See Batteries on page 15.
	Current time. See Setting the Date/Time on page 36.
	Synchronization software connection, such as ActiveSync or Windows Mobile Device Center.
	Active TCP/IP connection. Note You may see more than one icon if you have a WLAN (802.11) and Ethernet connection enabled at the same time.
	Inactive TCP/IP connection.
	Wi-Fi available and enabled with a good signal. Yellow bars indicate a weak signal. See Setting Up Wi-Fi on page 50.
	Wi-Fi available, but may be disabled and no signal.

Icon	Indicates
	Tap the switchpad icon to access the desktop or a list of open applications.
	Input method: keyboard/input panel/transcriber.
	See Input Panel on page 31.
	

Calibrating the Touch Screen

The FC300 touch screen should be calibrated for first time use. At any time, you can recalibrate the touch screen if it is not responding properly to stylus taps.

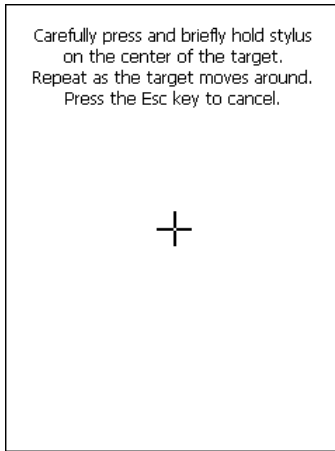
Calibration involves tapping the center of a target. If you miss the target, keep the stylus on the screen, slide it over the target's center, and then lift the stylus.

To calibrate the touch screen

1. Select **Windows logo > Settings > Control Panel > Stylus**.
2. Select the **Calibration** tab.



3. Select **Recalibrate**.



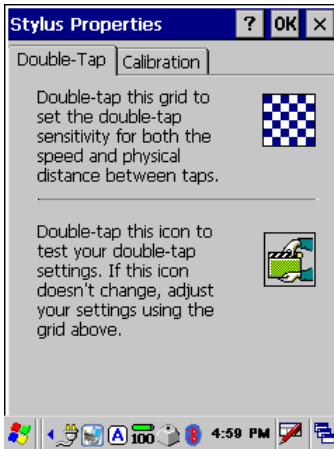
4. Follow the instructions on the screen. Press **ENTER** to save the calibration settings or press **Esc** to cancel or quit.




Calibrating the Double-Tap

The FC300 touch screen responds to stylus double-taps. Use this procedure to set the sensitivity of the double-taps and test the setting.

To calibrate the double-tap

1. Select **Windows logo > Settings > Control Panel > Stylus**.
2. Select the **Double-Tap** tab.



3. Double-tap the checkered grid icon  to set the sensitivity for speed and distance between taps.
4. Double-tap the movie clapper icon  to test the setting. The icon should change to show an open clapper .

If the icon doesn't change, repeat steps 3-4.

5. Select **OK**.
6. Exit the Control Panel to return to the desktop.

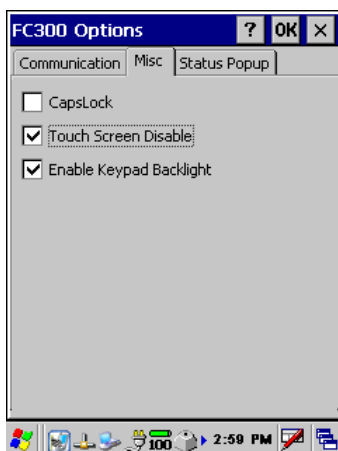
Disabling/Enabling the Touch Screen



Note Be sure you know how to enable the touch screen before you disable it; see [To enable the touch screen](#) on page 29.

To disable the touch screen

1. Select **Windows logo > Settings > Control Panel > FC300 Options**.
2. Select the **Misc** tab.

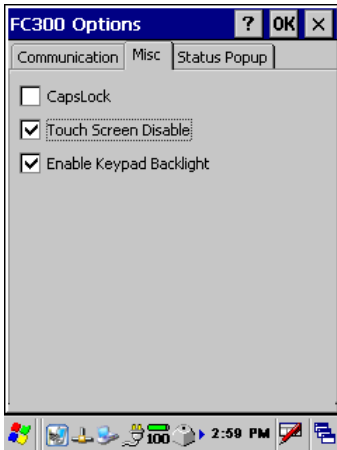


Select or clear the **Touch Screen Disable** option as needed.

3. Select **OK**. A Restart message appears; select **Yes** to restart the FC300 and have the touch screen disabled. The touch screen display shows the desktop.

To enable the touch screen

1. Using the keypad, press **CTRL ESC** (key sequence is **Orange Y Orange SPC**) to access the Start menu.
2. Use the arrow keys to select **Settings > Control Panel** and press **ENTER**.
3. Use the arrow keys to locate **FC300 Options** and press **ENTER**.
4. Use the right arrow key to access to **Misc** tab.






Use the down arrow key to highlight the **Touch Screen Disable** field. Press **SPC** to clear the check box. Press **ENTER**.

5. A Restart message appears; use the arrow keys to select **Yes** and press **ENTER**. The FC300 restarts and the display shows the desktop.

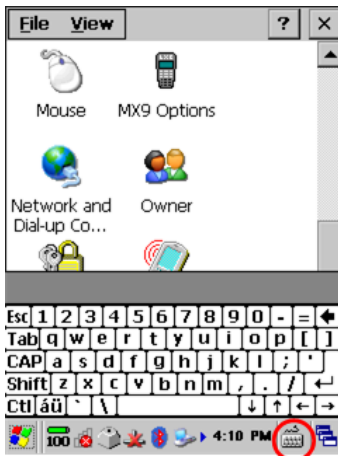
Input Panel

The FC300 has two input methods:

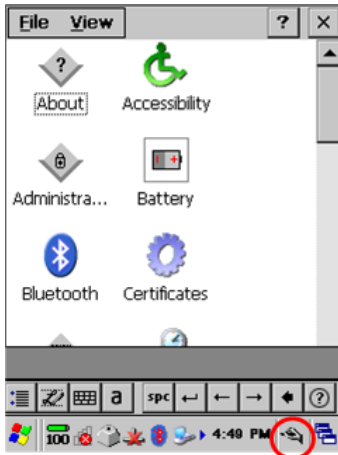
- **Keyboard.** For using the physical keypad and the on-screen keyboard.
- **Transcriber.** Uses Microsoft Transcriber as the handwriting recognition solution for the FC300 touch screen.

Icon	Input method	Description
	Input panel	Tap to access the different input methods.
	Keyboard	Indicates Keyboard input method.
	Transcriber	Indicates transcriber input method.

Example of the Control Panel using the Keyboard (on-screen keyboard) input method. Notice the Keyboard icon.



Example of the Control Panel using the Transcriber input method. Notice the Transcriber icon.

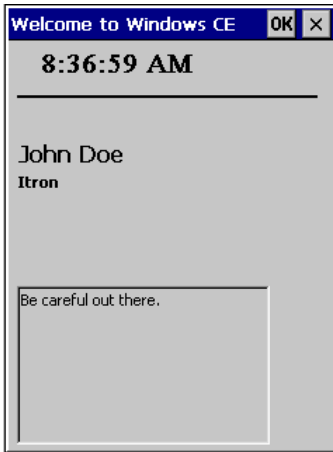


Setting Owner Information

Owner information includes:

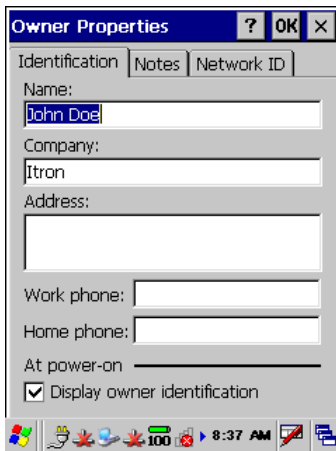
- **Identification.** Name, company, address, work and home phone numbers, and whether to display this information when powered on.
- **Notes.** Allows you to enter specific notes and whether to display the note when powered on.
- **Network ID.** User name, password, and domain to access defined network resources.

The following is an example of owner identification and notes displayed when powered on.



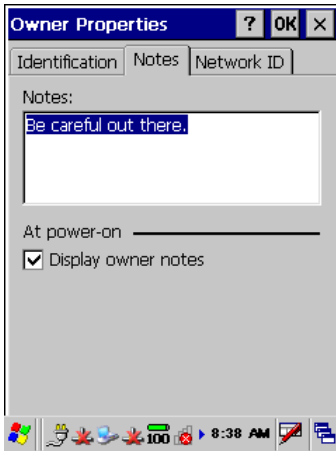
To set owner information

1. Select **Windows logo > Settings > Control Panel > Owner**.
2. Select the **Identification** tab.



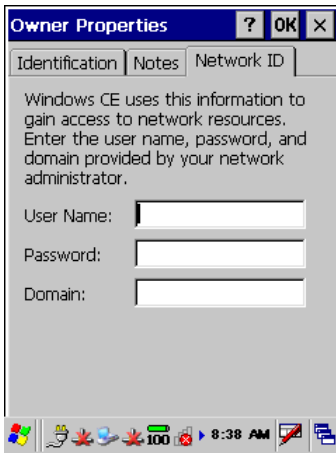
Enter information as desired. To display the information when powered on, select **Display owner identification**.

3. Select the **Notes** tab.



Enter information in the **Notes** field if desired. To display the information when powered on, select **Display owner notes**.

4. Select the **Network ID** tab.



If accessing network resources, enter the appropriate user name, password, and domain information.

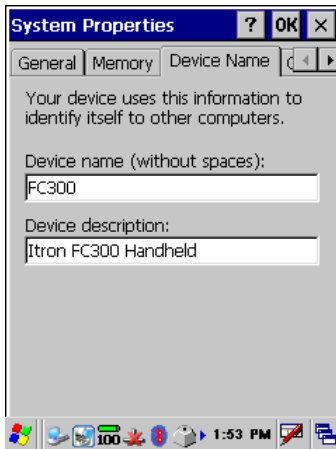
5. Select **OK**.
6. Exit the Control Panel to return to the desktop.

Setting the Device Name

Set up the FC300's device name before starting other applications. This device name may be used as a default name when setting up for other applications and when setting up a Bluetooth device.

To set the FC300 device name

1. Select **Windows logo > Settings > Control Panel > System**.
2. Select the **Device Name** tab.




Enter the desired name in the **Device name** field.

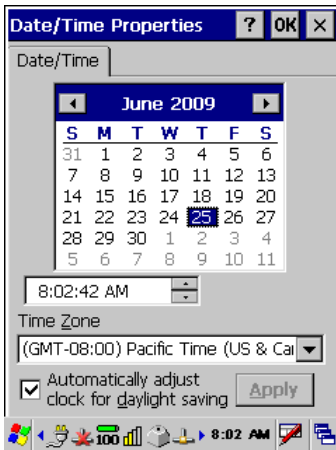
- The default name may be used when setting up for other applications; for naming conventions, see documentation for the specific application.
 - This is the default name that displays in the **Computer Friendly Name** field when setting up a Bluetooth device.
3. Enter information in the **Device description** field.
 4. Select **OK**.
 5. Exit the Control Panel to return to the desktop.

Setting the Date/Time

Set the date, time, time zone, and whether the system automatically adjusts for Daylight Saving Time (DST).

To set the date/time

1. From the desktop, double-tap the Time icon (), or select **Windows logo > Settings > Control Panel > Date/Time**.



2. Select the correct month:
 - Tap the month name and select the desired month from the pop-up menu.
 - or
 - Tap the left arrow or right arrow beside the month name to step through the months.
3. Select the correct year. Tap the year and use the field's up/down arrows to select the correct year.
4. Tap the correct date in the displayed calendar.

5. To set the time, tap the parameter to change (hours, minutes, or seconds).
 - Use the numeric keypad to type the correct value.
or
 - Use the field's up/down arrows to locate the correct value.
or
 - Press the up/down arrows on the keypad to locate the correct value.
6. Tap **AM** or **PM** to toggle between the two values.
7. Select your time zone from the drop-down menu.
8. Select **Automatically adjust clock for daylight saving**, if desired.
9. Select **OK**.
10. Exit the Control Panel to return to the desktop.

Setting Power Schemes

There are two Power Schemes for the FC300:

- **Battery Power.** Used when running on battery power; can be set to conserve battery power.
- **AC Power.** Used when running on AC power.

Each scheme has three settings available.



Caution Changes you make to the following settings may affect your battery life.

- **User Idle.** After the set time passes without activity, the system shuts down a minimum number of services, such as backlight. However, the FC300 is running and the touch screen is on. (This setting is the same as the [touch screen backlight timeout](#) on page 45.)
- **System Idle.** After the set time passes without activity, the system shuts down more services, such as the touch screen display. The FC300 is still running though. The SYS light at the top of the keyboard flashes green. Tap the touch screen or press any key (except the Power key) to turn on the touch screen.

- **Suspend.** After the set time passes without activity or the Power key is pressed, the system is suspended. When suspended, the touch screen is off, the SYS light is not flashing green, and the FC300 will not respond to regular key presses. Press the Power key to resume using the FC300.

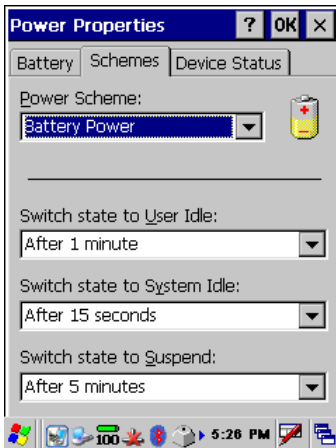
The time is cumulative. When the User Idle time has expired, the System Idle time begins. When the System Idle time has expired, the Suspend time begins. If the User Idle time is set to Never, settings for System Idle time and Suspend time are ignored. If the System Idle time is set to Never, the Suspend time is ignored.

Example of cumulative time, based on battery scheme default settings:

- The backlight turns off after 1 minute of inactivity.
- The touch screen display turns off after 1 minute, 15 seconds of inactivity (15 seconds + 1 minute).
- The FC300 enters Suspend mode after 6 minutes and 15 seconds of inactivity (5 minutes + 15 seconds + 1 minute).

To set the power schemes

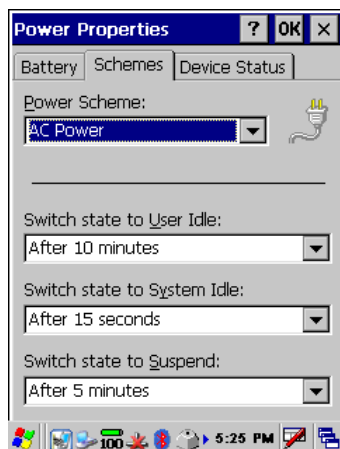
1. From the desktop, double-tap the Power icon (🔋), or select **Windows logo > Settings > Control Panel > Power**.
2. Select the **Schemes** tab.
3. In the Power Scheme field, select **Battery Power**.



- In each field, select the desired time.

Note The **Switch state to User Idle** setting here is the same for the backlight's **Battery power, and device is idle for more than** setting (see [Touch Screen Backlight](#) on page 45).

- In the Power Scheme field, select **AC Power**.



In each field, select the desired time.

Note The **Switch state to User Idle** setting here is the same for the backlight's **External power, and device is idle for more than** setting (see [Touch Screen Backlight](#) on page 45).

- Select **OK**.
- Exit the Control Panel to return to the desktop.

Setting Speaker Sounds and Volume

The FC300 speaker is located under the LED status indicators. You can enable sounds for system events, applications, notifications (alarms, reminders), key clicks, and screen taps. You can also select a specific sound for an individual event.

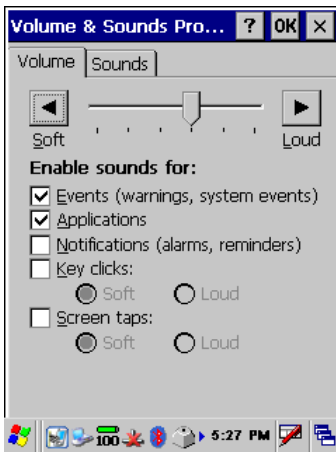
Once a sound is enabled, adjust the volume from the Control Panel setting or from the keyboard. There are six volume level settings; they are the same for keypad use and Volume & Sound properties.



Note These sound settings may not have any effect within an Itron software application. For details, see the documentation for the Itron software application.

To enable sounds

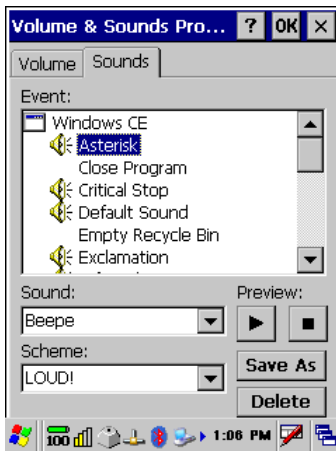
1. Select **Windows logo > Settings > Control Panel > Volume & Sound**.
2. Select the **Volume** tab.



Set the volume on the slider bar. Tap the Soft ◀ key and Loud ▶ key for a sound example.

Select which items will have sounds enabled.

- If **Applications** is cleared, **Notifications** is unavailable for selection.
 - For **Key clicks** and **Screen taps**, select for **Soft** or **Loud** sound.
3. Select the **Sounds** tab. You can make changes to a current scheme or create a new one. If changing a current scheme, select that scheme from the Scheme list.



Select an **Event**.

Select a **Sound**; several sounds are already included such as Beepe, Beeph, and Buzzh. Tap ► to preview the sound. Tap ■ to stop the sound example.

Repeat this step for each Event as needed.

4. If saving changes to a current scheme, select that Scheme if needed.

Tap **Save As**. The Save Scheme As dialog box appears.

- If saving changes to a current scheme, the current Scheme name appears.
- If creating a new scheme, enter a new Scheme name.

- Select **OK**. The Save Scheme As dialog box closes.
- If replacing a current scheme, a Change Scheme dialog appears. Make an appropriate selection.
 - If you no longer want a specific scheme, select it in the Scheme list and tap **Delete**. A Scheme dialog box appears; make an appropriate selection.
5. When completely done, select **OK** from the Volume & Sounds Properties screen.
 6. Exit the Control Panel to return to the desktop.

To adjust speaker volume from the keyboard

Action	Key sequence
Decrease volume	Blue V ▼
Increase volume	Blue V ▲
Exit volume action	Press any key except the Blue V volume adjust keys.

Using the Flashlight

The FC300 has an LED flashlight in the top of the unit. The flashlight on/off key is located at the bottom of the keypad.

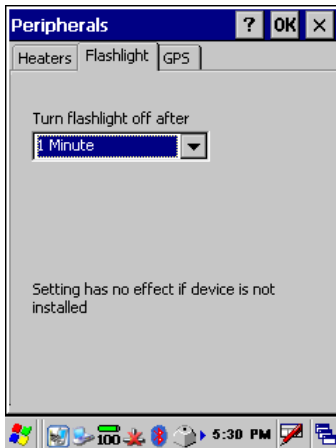


A Control Panel setting defines the time-out period before the FC300 shuts off the flashlight.

The flashlight timer starts when the flashlight key is toggled on. The flashlight remains on until the flashlight key is toggled off, the flashlight timer expires, or the FC300 enters Suspend mode.

To set the flashlight timer

1. Select **Windows logo > Settings > Control Panel > Peripherals**.
2. Select the **Flashlight** tab.



Select the desired setting.

3. Select **OK**.
4. Exit the Control Panel to return to the desktop.

Backlight Settings

The FC300 has two types of backlights:

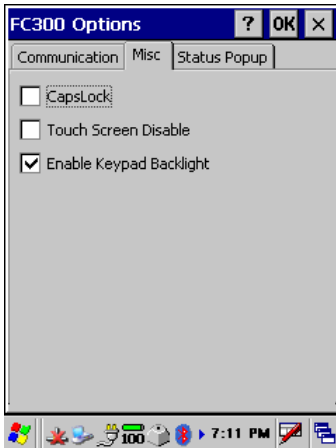
- Keypad backlight
- Touch screen backlight

Keypad Backlight

The keypad backlight is white and can be enabled (default) or disabled. If enabled, the keypad backlight follows the touch screen backlight settings for when to turn off. If disabled, the keypad backlight does not turn on during a suspend, restart, or reboot.

To set the keypad backlight option

1. Select **Windows logo > Settings > Control Panel > FC300 Options**.
2. Select the **Misc** tab.



Select or clear the **Enable Keypad Backlight** field as needed.

3. Select **OK**.
4. Exit the Control Panel to return to the desktop.

Touch Screen Backlight

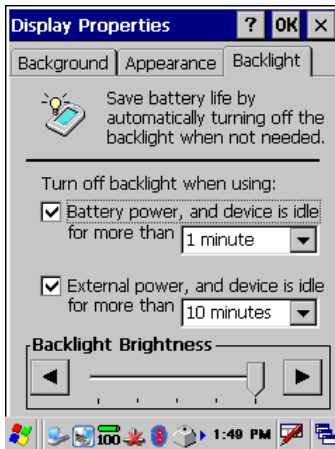
The touch screen backlight settings control dimming of the backlight when the FC300 is idle after a user-defined time for battery use and external power use (see [Setting Power Schemes](#) on page 37). When the backlight timer expires, the touch screen backlight is dimmed, not turned off. Any action on the FC300 returns the brightness setting.

The keypad backlight also uses these time settings, but turns off instead of dimming.

This option also defines the default brightness setting for the touch screen. This can be manually adjusted with keystrokes (**Blue B** ▼ or **Blue B** ▲).

To set the touch screen backlight options

1. Select **Windows logo > Settings > Control Panel > Display**.
2. Select the **Backlight** tab.
3. Define settings as needed. If the **Battery power** field *and* the **External power** field are cleared, the touch screen backlight never dims, keypad backlight never turns off, and the FC300 will not Suspend.



Note The **Battery power, and device is idle for more than** setting here is the same for the Power Scheme: Battery Power setting in **Switch state to User Idle**. The **External power, and device is idle for more than** setting here is the same for the Power Scheme: AC Power setting in **Switch state to User Idle**. For more details, see [Setting Power Schemes](#) on page 37.

4. Select **OK**.
5. Exit the Control Panel to return to the desktop.

Accessories

The following optional accessories can be set up for the FC300:

- SRead radio with antenna
- Wireless Wide Area Network (WWAN)
- Wi-Fi
- Bluetooth devices
- GPS (an embedded GPS module)
- Imager (an embedded imager for 2D barcode and monochrome imager)
- Holster
- Carry case
- Charging FC300 in a vehicle
- Touch screen protective film

Setting the Radio

The FC300 is optionally equipped with an SRead radio which is connected via an internal serial port and integrated into the FC300. An external antenna is attached at the top of the FC300 and can be removed or replaced as needed.



Caution Use this device only in a manner consistent with this document. For details, see [RF Exposure on page iii](#) and [Specific Absorption Rate Data on page iii](#).

Antenna Types

If you ordered the FC300 with SRead, or the FC300 with SRead + Imager, you need to attach the appropriate antenna to the top of the FC300.

Length	Part number Description	Gain	Type	Impedance
8¼ inch antenna	FC3277ANTENNA Use this antenna when reading endpoints at long range, more than six feet (1.8 meters) away. This antenna can also be used for endpoint programming and reading endpoints at short range, less than six feet (1.8 meters) away.	2.1 dBi	Vertical omni	50-ohm
2½ inch antenna	FC3280ANTENNA Use this antenna when scanning/imaging is required during endpoint programming, and when reading endpoints at short range, less than six feet (1.8 meters) away.	Unity	Vertical Omni	50-ohm

This device has been designed to operate with the antennas listed above, and having a maximum gain of 2.1 dB. Antennas not included in this list or having a gain greater than 2.1 dB are strictly prohibited for use with this device. The required antenna impedance is 50-ohms. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

Industry Canada Conformity

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (IC:864A-FC300SR, IC:864A-HHSR3) has been approved by Industry Canada to operate with the antenna types listed above with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio (IC:864A-FC300SR, IC:864A-HHSR3) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessus et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Attaching the Antenna



Caution Do not pick up the FC300 by the antenna.

Both types of antennas are attached the same way. The following picture shows where the antenna is attached at the top of the FC300.



To attach the antenna

1. Carefully insert the base of the antenna into the antenna port located at the top of the FC300.
2. When initially seated, gently hand-tighten the antenna by turning the antenna to the right.

Wireless Wide Area Network (WWAN)

WWAN is not supported on the FC300 at this time.

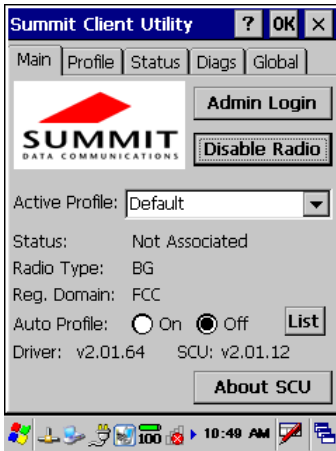
Setting Up Wi-Fi

If your company uses a wireless network, you can set up the FC300 handheld—if it has a Wi-Fi card—to access that wireless network.

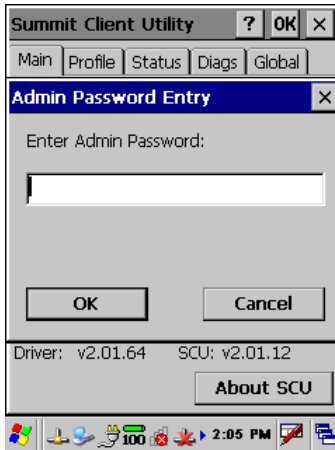
If you don't see the Wi-Fi icons (📶 or 🚫) in the taskbar, the FC300 may not be enabled for Wi-Fi. Another way to check for Wi-Fi is to access the Summit Client Utility screen (steps 1 and 2 in the following procedure). If the Radio Type field is blank (--), the FC300 is not enabled for Wi-Fi.

To set up Wi-Fi

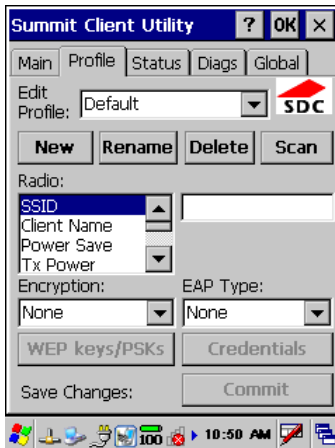
1. From the FC300 status bar, double-tap the Wi-Fi icon (📶 or 🚫). Or you can select **Windows logo > Control Panel > Settings > Wi-Fi**.
2. The Summit Client Utility screen appears.
 - Tap **Enable Radio** to turn the radio on; if you see **Disable Radio**, the radio is already on.
 - Tap **Admin Login**.



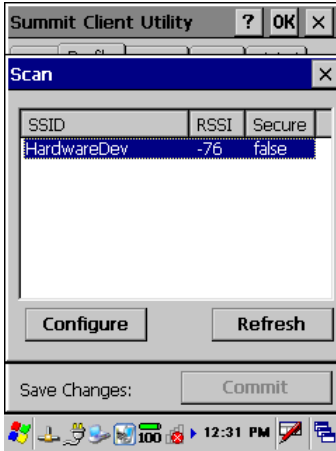
3. In the Admin Password Entry screen, type **SUMMIT** (all uppercase) and then tap **OK**.



4. From the Summit Client Utility screen, select the **Profile** tab and then tap **Scan**.



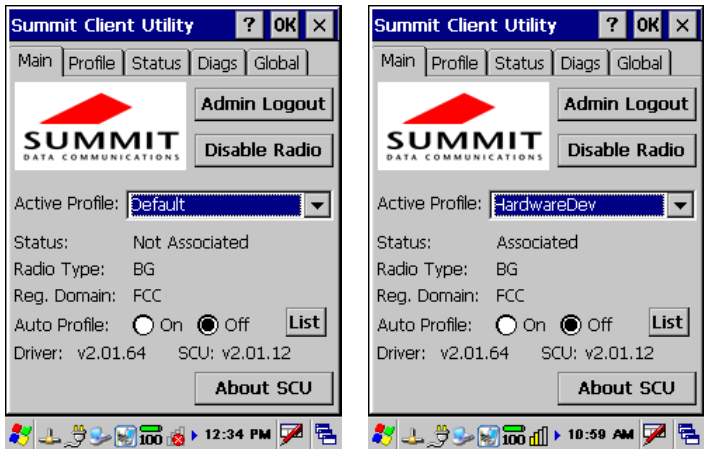
- From the Scan screen, select the desired wireless network and then tap **Configure**.



- An SCU screen appears asking if you want to create a new profile; the name is based on the wireless network you selected earlier. Tap **Yes**.

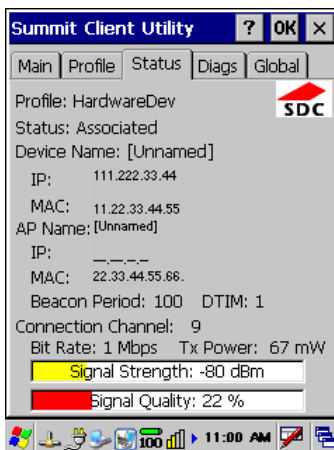


- Select the **Main** tab and change the **Active Profile** field to the new profile you just created. The Status field changes from **Not Associated** (first example) to **Associated** (second example).



In the Radio Type field, **BG** indicates an 802.11 b/g radio; **ABG** indicates an 802.11 a/b/g radio.

- Select the **Status** tab and check to be sure an IP address is shown in the IP field.



Tap **OK** to exit the Summit Client Utility screen.

- Exit the Control Panel to return to the desktop.
You now have access through the wireless network.

Bluetooth Devices

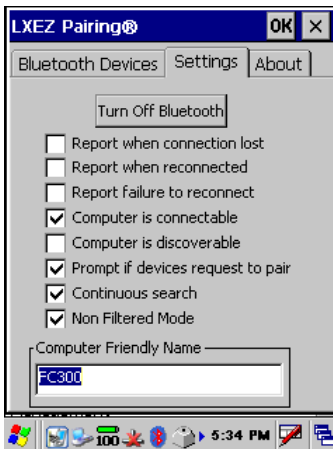
The FC300 includes Bluetooth capability and supports a bar code scanner, Itron belt clip radios, and GPS receivers. Pairing can occur at line-of-sight distances up to 32.8 feet (10 meters).

Setting Up a Bluetooth Device

To use a Bluetooth device, the FC300 must first *discover* and *pair* with that device. Pairing occurs when two Bluetooth devices agree to communicate with each other and establish a connection. For example, the FC300 (one Bluetooth device) discovers and pairs with a GPS device (a second Bluetooth device).

To initially set up a Bluetooth device

1. Select **Windows logo > Settings > Control Panel > Bluetooth**.
2. Select the **Settings** tab.

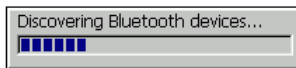


- If Bluetooth is already on, the screen shows **Turn Off Bluetooth**. If the screen shows **Turn On Bluetooth**, tap the button. Bluetooth is enabled and the button should now be Turn Off Bluetooth.
- Enter a **Computer Friendly Name**. This defaults to the Device Name (see [Setting the Device Name](#) on page 35) and resets to the Device Name after a soft reset.

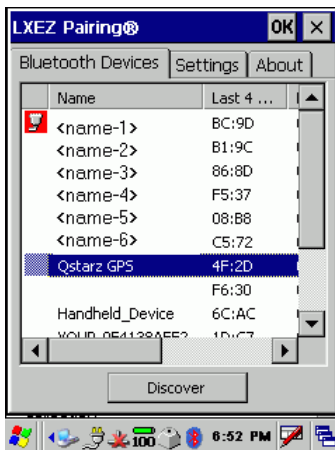
3. Select the **Bluetooth Devices** tab.



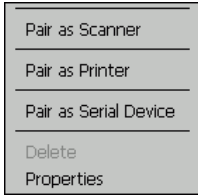
Be within line-of-sight range of the desired Bluetooth device to pair. Select **Discover**.



All discoverable Bluetooth devices in the vicinity are listed.



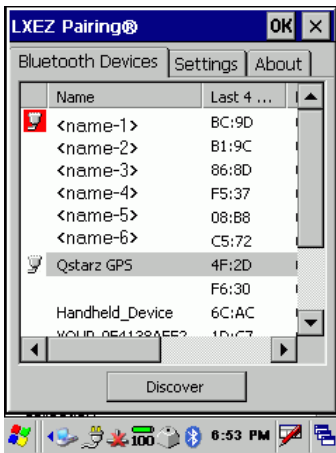
- 4. Select the desired device. Double-tap and select the correct pairing; select **Pair as Serial Device** for a GPS receiver.



- 5. Check the pairing properties. Select the device again. Double-tap and select **Properties**.



- 6. The paired device now shows a connected icon.



Discovered and paired devices may be identified with an icon which is assigned by the system.

Icons in the left column provide information about the device.




White background indicates the device is connected and the Bluetooth connection is active.



Red background indicates the Bluetooth connection is inactive.

7. Select **OK** to close this screen and return to the Control Panel.

After a successful Bluetooth discovery and pairing, the following is visible.

- The Bluetooth LED blinks at a medium speed indicating the Bluetooth device is paired and connected. For LED information, see [Bluetooth LED Status Indicators](#) on page 6.
- The Bluetooth icon in the task bar  indicates the Bluetooth module is connected to one or more Bluetooth device. For icons in the taskbar, see [Taskbar Icons](#) on page 25.

If a Bluetooth device becomes unintentionally disconnected—for example if the device is out of range or powers off—the FC300 attempts to reconnect. It continues to attempt to reconnect


- For 30 minutes, if the Continuous search field (as seen in step 2) is cleared.
- Forever, if the Continuous search field (as seen in step 2) is checked.

To stop the FC300 from attempting to reconnect, you must delete the device from the list; see [To delete a Bluetooth device](#) on page 57.

The FC300 can only have four connections (either active or inactive) at one time. If you want to connect to a device and all the connections are taken up, you must delete one of the previous connections; see [To delete a Bluetooth device](#) on page 57.

To delete a Bluetooth device

1. Select **Windows logo > Settings > Control Panel > Bluetooth**.
2. Select the **Bluetooth Devices** tab.
3. Double-tap the device to delete and select **Disconnect**.

The icon to the left of the device name changes to inactive  .

4. Double-tap the device again and select **Delete**.
5. A Bluetooth message appears stating that the pairing will be deleted the next time you open the Bluetooth screen. Select **OK**.
6. Exit the Control Panel to return to the desktop.

GPS

The FC300 has an optional embedded (internal) GPS (Global Positioning System) module to work with a GPS-enabled application, including any Itron GPS-enabled software application. The embedded GPS module must be enabled before use. For details, see the documentation for the Itron software application.

To enable the embedded GPS

1. Select **Windows logo > Control Panel > Settings > Peripherals**.
2. Select the **GPS** tab.



By default, GPS Power = OFF.

Select **ON** to enable the embedded GPS functionality.

3. Select **OK**.
4. Exit the Control Panel to return to the desktop.

Imager

The FC300 has an optional embedded imager. The imager can only be used from within an Itron application which supports an imager, such as Endpoint-Link. For details on using the imager within an Itron software application, see the documentation for that software application.

The imager has two functions:

- Monochrome image capture
- Built-in imager for linear and 2D (two dimensional) barcode scanning



Warning The imager uses laser light.

- Do not look into the laser's lens.
- Do not stare directly into the laser beam.
- Do not remove the laser caution labels from the FC300.
- Do not connect the laser barcode aperture to any other device. The laser barcode aperture is certified for use with the FC300 only.
- Avoid exposure; laser radiation is emitted from the imager aperture.
- Laser radiation is possible when open. Please read the caution labels. Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

For more details about using the imager, see the *FC300 Imager Best Practices and Troubleshooting* (TDC-0957-xxx)

Holster

The FC300 has an optional holster available. The holster can be worn on the left or right side in conjunction with the Itron holster belt. The holster can also be used with a shoulder strap.

The holster has an accessory pocket that can be used to carry a probe, a spare main battery, or whatever you want.



- 1 FC300
- 2 Holster
- 3 Holster belt
- 4 Stylus holders
- 5 Accessory pocket

Holster Belt

The holster belt has a quick-release buckle and is adjustable.



- 1 Adjustable slider
- 2 Webbing doubled-end
- 3 Slider clip
- 4 Three-prong buckle end
- 5 Buckle clasp

Attaching Holster to Belt

The holster belt must be partially unassembled so it can slip through the holster belt loop on the holster. It is then reassembled. Red numbers—such as (1)—refer to parts in the labeled picture preceding this procedure.

To attach the holster belt to the holster

1. Lift the webbing doubled-end (2) up and out of the slider clip (3).
2. Unthread the webbing from the three-prong buckle end (4) by pushing the doubled-end through the top slot of the buckle.
3. Continue unthreading the webbing through the bottom slot of the three-prong buckle end.

4. Remove the slider clip by pinching the webbing and sliding it out of the clip ends.



5. Lay out the belt so that the front of the remaining buckle end (5) is down, as is the adjustable slider (1).



Stretch out the rest of the belt so it is flat. The doubled-end of the belt (from which you just removed the three-prong buckle end) should be facing up.

6. Grab the unthreaded doubled-end and thread it through the holster's belt loop so the webbing doubled-end is facing away from the holster.



7. Try on the belt with attached holster to make sure the front of the buckle clasp and the adjustable slider is on the side of the belt away from your body.

8. To rethread the three-prong buckle end with the webbing, grasp the webbing doubled-end and insert it through the bottom slot of the three-prong buckle end. Be sure you insert from the back of the buckle; there is a slight curvature to the buckle. Insert the webbing doubled-end into the concave curved side.



9. Loop the webbing and insert the webbing doubled-end into the top slot of the three-prong buckle end.



10. Pull the webbing so there is a tight fit on the three-prong buckle end.
11. Reattach the slider clip by pinching the webbing and sliding the clip in place. Be sure the clip opening is up.

12. Grasp the end of the webbing and slide it into the clip opening. This keeps webbing doubled-end semi-attached to the belt.



13. The holster is now attached to the belt and ready to use.

Carry Case

The FC300 has an optional carry case to provide extra protection. The touch screen and keypad are still accessible as is the top of the FC300 for the flashlight, and antenna and imager (if installed). The FC300 main battery compartment remains easily available. The carry case can be used with an attached hand strap (for right or left hand use) or a removable shoulder strap. The shoulder strap allows the FC300 to hang upside down.

There are two styles of carry cases:

- For an FC300 with SRead radio
- For an FC300 without the radio

Front and Back Views



- 1 Clear plastic holding strap
- 2 Latches for shoulder strap
- 3 Hand strap
- 4 Stylus holder (on other side too)
- 5 Zipper for enclosing FC300 (on other side too)
- 6 Latch for attaching shoulder strap (on other side too)
- 7 Shoulder strap

Top and Bottom Views

Top view opening



Bottom view opening



- 1 Flashlight
- 2 Hirose connector, covered
- 3 Hand strap bottom connector, attached
- 4 I/O (input/output) connector, covered
- 5 Tether for I/O connector cover
- 6 Latches for shoulder strap

Charging an FC300 from a Vehicle

The FC300 can be charged in a vehicle without using the vehicle dock. The FC300 charger cable consists of a 12 volt DC power supply adapter to plug into the vehicle's 12 volt DC power supply receptacle (cigarette lighter), and a connector to plug into the I/O (input/output) connector on the bottom of the FC300.



Note This charger cable is only for direct charging to an FC300. Do not use this cable with a vehicle dock.



To provide power to the FC300

1. Using the FC300 charger cable, plug the (1) end into the I/O (input/output) connector on the bottom of the FC300.
2. Plug the (2) end into the vehicle's 12 volt DC power supply receptacle (cigarette lighter).

Applying the Touch Screen Protective Film

(Optional) Apply the touch screen protective film to extend the life of the touch screen.

To apply the touch screen protective film

1. Clean the touch screen from fingerprints, lint particles, dust, and smudges. See [Cleaning](#) on page 69.
2. Remove the protective film from its container
3. Remove the protective backing from the film sheet by lifting the backing from a corner of the film. Discard the backing.
4. Apply the film to the touch screen starting at one side and smoothing it across the display area until it covers the glass surface of the display.
 - If air bubbles appear, raise the film slightly and continue smoothing the film across the display area.
 - If dust, lint, or smudges are trapped between the protective film and the glass display, remove the film, clean the display area, and apply the film again.

Maintenance

Consider the following maintenance issues:

- Cleaning the FC300
- Batteries
- Exposure to moisture

Cleaning

The FC300 should only be cleaned as needed.

Do

- Remove lint and dust with clean, filtered canned air.
- If needed, apply a small amount of a mild household cleaning chemical to a soft, non-abrasive cloth and gently wipe the soiled touch screen surface or imager window.

Don't

- Do not spray any cleaning chemical directly onto the FC300.
- Do not use harsh chemicals such as hand creams or insect repellent on the FC300 as they can damage the materials and void the warranty.
- Do not scrub the touch screen surface or imager window.

Batteries

While attached to an external power source, the FC300's main battery and backup battery are recharged. Frequent connection to an external power source is recommended to maintain the backup battery charge status as the backup battery cannot be recharged by a dead or missing main battery.

Exposure to Moisture

While the FC300 is designed to handle moisture, it is a best practice to keep the handheld as dry as possible. If moisture occurs due to inclement weather such as rain or snow, be sure to gently dry the FC300 when you return to the office. Use compressed air to dry the handheld, taking special care to dry the terminal contacts on the bottom. If compressed air is not available, use a soft towel.

Troubleshooting

SD Card



Caution The SD card is only accessible by certified Itron service representatives. Please contact Itron Customer Support (at 1.877.ITRON.02) if you have questions or concerns related to accessing the SD card and its data.

You may be charged repair fees if you attempt to access the SD card without Itron customer service approval and assistance.

Itron Applications

The following Itron applications can be installed on the FC300:

- Endpoint-Link (EPL), v5.5 or greater
- Endpoint-Link Pro (EPLP), v5.5 or greater
- Field Deployment Manager (FDM), v2.1 or greater
- Field Collection System (FCS), v2.1 or greater
- MV-RS, v8.0 or greater

For details about how the application runs on the FC300, see the documentation for that specific application.

Index

A

- ActiveSync • 10
- antenna • 48
 - attaching • 49
 - long range antenna • 48
 - short range antenna • 48

B

- backlight • 44
 - keypad • 44
 - touch screen • 45
- barcode reader • 60
- barcode scanner • 60
- battery • 15
 - backup battery • 16
 - checking backup battery status • 17
 - conserving battery power • 37
 - installing • 9
 - maintaining the battery • 69
 - replacing • 17
 - setting battery icon • 15
- Bluetooth • 54
 - discovery • 54
 - LED indicators • 6
 - pairing • 54
 - task bar icons • 25

C

- carry case • 65
- cleaning the FC300 • 69
- cold boot • 13
- computer friendly name • 54

D

- date/time settings • 36
- device name • 35
- disable touch screen • 29
- double-tap sensitivity • 28

E

- enable touch screen • 30

F

- flash card • 70
- flashlight • 43

G

- GPS • 59

H

- hand strap • 8
 - detaching • 8
 - view (hand strap) • 3
- hard reset • 13
- holster • 61
 - attaching belt to holster • 62
 - holster belt • 62

I

- imager • 60
- input methods • 31
- Itron software applications • 70

K

- keyboard • 31

L

- LED status indicators • 5
 - Battery • 6
 - Bluetooth • 6
 - System • 7

M

- maintaining the battery • 69

maintenance • 69
 cleaning the FC300 • 69
 drying the FC300 • 70
 maintaining the battery • 69
modifier keys • 20

O

owner information • 32

P

power scheme settings • 37

R

resetting the FC300 • 13

S

scanner • 60
SD card • 70
serial number • 3
soft reset • 13
sounds • 40
synchronization software • 10

T

task bar icons • 25
touch screen protective film • 68
touch screen
 applying protective film • 68
 backlight • 45
 calibrating • 26
 disable/enable • 29
 double-tap sensitivity • 28
 enable • 30
transcriber • 31
Troubleshooting • 70

V

vehicle charger • 67
volume • 40

W

warm boot • 13
Wi-Fi • 50
 setting up • 50
 taskbar icons • 25
Windows Mobile Device Center • 10
WWAN • 49