



FC-6000A

Field Computer

Operator Manual

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WARNING! This symbol indicates that failure to follow directions could result in serious injury.



CAUTION: This symbol indicates that failure to follow directions could result in damage to equipment or loss of information.

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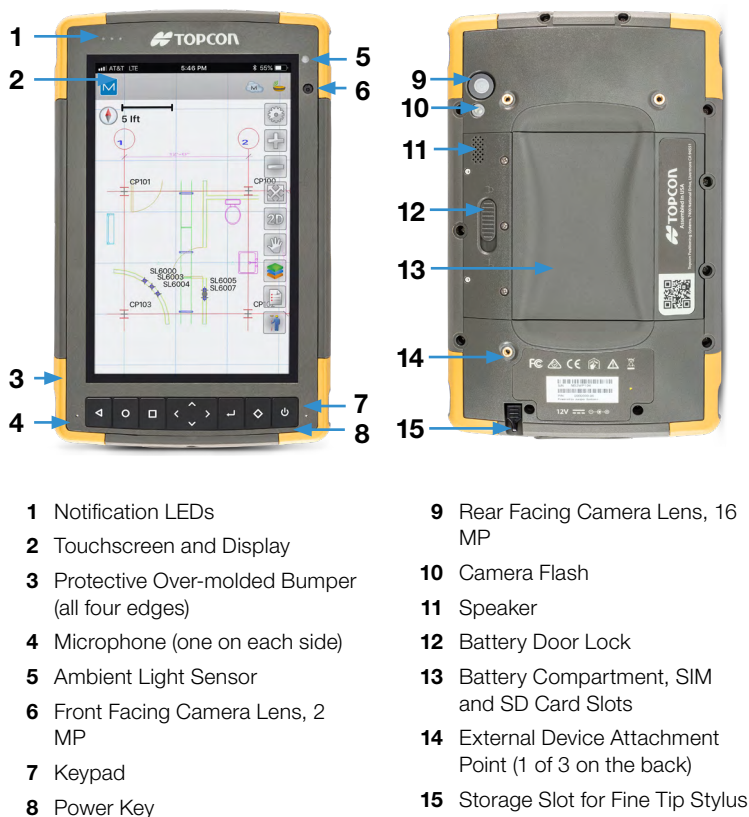
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Getting Started

The standard features for the FC-6000A Field Computer powered by Android from Topcon include a 7" display, capacitive touchscreen, keypad, internal battery pack, *Bluetooth* technology, Wi-Fi, NFC, GPS/GNSS, camera, and 4G LTE data modem. Standard accessories include a removable lithium-ion battery pack, AC wall charger, hand strap, connector port cover, a fine tip capacitive stylus and tether, and a foam tip stylus for use in wet conditions.

Anatomy of the FC-6000A

Front and Back Features



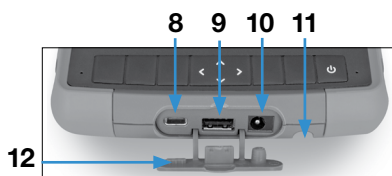
Battery Compartment and Card Slots



- 1 Battery Pack, Removable
- 2 Battery Door
- 3 Micro SIM Card Slot and Micro SD/SDHC Card Slot (underneath card retainer)

- 4 Flexible Card Retainer
- 5 Battery Compartment
- 6 Docking Port Connections
- 7 Hand Strap Attachment Point (2 on each side)

Connector Ports



- 8 USB-C, USB 3.1 OTG, 5V 1.5A Max Output
- 9 USB 2.0 Host, Full Size A Connector, 5V 500mA Max Output
- 10 12 VDC Power Input Jack
- 11 Storage Slot for Fine Tip Stylus
- 12 Connector Port Protector

Perform Initial Tasks

When you receive your FC-6000A, perform the tasks outlined in this section before first use.

Review Documentation

Documents are available on our website at: <https://www.topconpositioning.com/na/support>. View information on the FC-6000A or another computer with an internet connection.

Documents will be updated during the life of the FC-6000A. Compare version numbers to see if a document has changed.

Install the Battery Pack, Micro SD Card, and Micro SIM Card

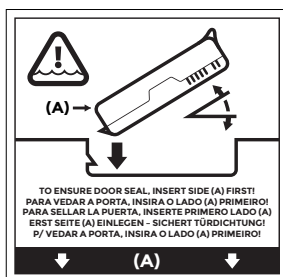
The FC-6000A comes with a rechargeable, removable Li-Ion battery pack. Install and charge the battery pack as follows:

1. The battery compartment is accessed from the back of the field computer. Push the battery lock switch in, slide it to the unlocked position, and remove the door.



CAUTION: The FC-6000A is not sealed against water and dust when the battery door is not installed.

2. If you are using a micro SD card for additional memory or a micro SIM card for cellular data, you can install them now before you install the battery pack or at another time. If you do this, make sure you replace the flexible card retainer before installation of the battery. See *Chapter 2, Standard Features, SD Cards* for more details.
3. Follow the graphic on the battery label to insert the battery pack properly.



Hold the battery so that the black tab on the front edge of the battery is up and facing the door latch (this tab helps you pull the battery out). Place the back edge in first, gently pushing it underneath the two battery catches. Rotate the front edge down until it is in position.



CAUTION: Do not insert the battery pack straight down. Damage to the unit could occur.



4. Replace the door and press down on it until the latch pops into the locked position (from this view, the left side of the door is inserted first).
5. Attach the appropriate plug for your country into the AC wall charger and plug it into a wall socket. Plug the other end into the DC power jack on the FC-6000A.

Note: Use the AC wall charger that came with the FC-6000A or an approved charger.

6. Charge the battery pack at room temperature (68°F or 20°C) for 6 hours (for the first charge). While the battery pack is charging, the red notification LED on the front of the case blinks. When it is fully charged and external power is applied, the red LED is solid. The battery charge level shown on the icon for this battery (see the status bar at the top of the display) shows the correct charge after the battery has been fully charged for the first time.

Attach the Hand Strap and Stylus Tether

A hand strap, fine tip capacitive stylus, and tether are included with the FC-6000A.

Hand Strap

To attach the hand strap to the FC-6000A, follow the images below. You can attach it to the right or left side of the field computer:



1



2



3

Stylus and Stylus Tether


Attach one end of the stylus tether to the stylus. To attach the tether to the field computer, follow these steps:

1. Attach one end of the stylus tether to the stylus.
2. Push the free tether loop through one of the tether attachment points located on the side of any of the four corners.



3. Insert the stylus with the attached tether through this loop and tighten the loop.
4. Place the stylus into the stylus storage slot located on the bottom of the FC-6000A.

Turn the FC-6000A On and Off

To turn the FC-6000A on, press and release the power key . The field computer powers on and begins the startup process. The first time you do this, you are asked to set up your device and create or sign into a Google account.

When startup is complete, the Lock screen is shown. Swipe up from the bottom of the screen to unlock it. The Home screen is shown.

To power the FC-6000A off, press the power key for a few seconds until a menu is shown with these selections:

- Power off
- Restart
- Screenshot

Select *Power off*.

Standard Features

This chapter discusses the standard features included with all FC-6000A models with Android.

Operating System

The FC-6000A operates on Android 9, 11, or 14.

Display and Touchscreen

The FC-6000A has a bright color display and capacitive touchscreen with a diagonal viewing area of 7 inches (178 mm).

Accessing Information

When you turn the FC-6000A on, a Lock screen is shown. Swipe up from the bottom of the screen to unlock it. The Home screen is shown. From the top of the Home screen, swipe down once to see the Quick Settings menu with icons for settings like the Flashlight, Wi-Fi, and *Bluetooth* technology and to view any existing notifications. Swipe down again for access to more settings including Airplane mode, Touch Settings, the screen brightness bar, and Settings (gear icon). Tap on an icon to turn the feature on or off. You can hold most icons down to see the full Settings screen. From the white bar on the bottom of the Home screen, swipe up once to see last screen accessed. Swipe up again to see a complete list of apps.

Note: The display automatically goes to sleep after a set amount of time passes. Press the power key and the lock screen appears. You can adjust the sleep interval in Settings > Display.

Auto-rotate the Screen

The default setting for the screen is portrait mode. To set the screen up to automatically rotate between portrait and landscape mode, swipe down from the Home screen to Quick settings. Tap the Auto-rotate icon to turn it on.

Turning on screen rotation for the Home screen is a separate process. Go to the Home screen. Tap and hold a finger down in a blank area of the screen until a menu appears. Select *Home settings > Allow Home screen rotation*.

Touchscreen Touch Control Setting

You can select the profile you want the screen optimized for based on the environment you are working in and your personal preference. Profiles choices include: Finger, Stylus or Finger, Glove, Stylus, or Wet. You can try different profiles to see which one works best for the conditions the FC-6000A is being used in.

To adjust the Touch Control setting, swipe down from the top twice to see all of the Quick Settings and tap and hold Touch Settings. Make a selection from the list of options that is shown. You can also go to *Settings > Touch Control*.

Wet Conditions






When using the FC-6000A in wet conditions, you must use your finger or the soft-tipped stylus that is included, even after selecting the Wet Touch Control profile. The hard-tipped stylus is not supported with this profile. Third party styli might work with the FC-6000A touchscreen. However, third party styli performance may vary.

Touchscreen Enable/Disable

There are times when you might want to disable the touchscreen (so selections are not inadvertently made, for example). A keypad button can be set up to provide this function. Go to *Settings > Keypad*. Select Advanced to see all of the keys. Select the key you want to use. A list of options is shown for that key (scroll up and down to see them all). Select *Touchscreen enable/disable*.

Keypad Features

The FC-6000A keys (buttons) are sealed and have backlight illumination. They are programmable. The standard functions are shown in the following chart:

Key	Function
	Back
	Home
	App Select
	Volume -
	Volume +

Key	Function
^	Brightness +
▼	Brightness -
◇	Screenshot
↵	Enter
⏻	Power <ul style="list-style-type: none"> ■ Press and release: On or sleep ■ Hold for 3 seconds: Select <i>Power off</i>, <i>Restart</i>, or <i>Screenshot</i> ■ Hold for 10 seconds: Forced shut down ■ Hold for 20 seconds: Electrically disconnect the battery pack(s); to reconnect the batteries, you are required to plug in the charger or external 12 V power

Programmable Keys

All of the keys except for power ⏻ are programmable. Select *Settings > Keypad*. The keys and their current assignments are shown. Select *Advanced* to see all of the keys. Select individual keys and your preferred function for specific keys from the drop down menus (scroll up and down to see all of the functions).

Light Sensor

An ambient light sensor is located on the front of the FC-6000A in the upper-right corner. The light sensor can dynamically adjust the backlight on the display based on lighting changes. You can enable this process by going to *Settings > Display > Adaptive brightness*.

Power Management

The FC-6000A runs on battery power, using a removable, rechargeable, Li-Ion battery pack. A non-removable, internal battery pack is an option. The field computer operates on either one or both battery packs.

Battery Status and Management

Battery icons on the Status bar shows the status of installed batteries. The large battery icon represents the removable battery

while a smaller battery icon represents an internal battery. The status of these icons follows:

- If both the internal and the removable batteries are installed, a bigger battery icon and a smaller battery icon are shown.
- If a removable battery is not present, both battery icons are shown, but the larger battery icon has an exclamation mark signifying that it is not present.
- If only the removable battery is present, only the large battery icon is shown.

Charging the Battery Pack(s)

For field computers that have both a removable battery pack and an internal battery pack, the intelligent internal battery charging circuit first charges the battery pack with the least amount of energy. When this battery pack comes to the same level as the other battery pack, then both battery packs are charged at the same time until they are both fully charged.

Battery packs are charged most efficiently at room temperature (68°F or 20°C). They will not charge if it is too hot or too cold.

⚠ CAUTION: *Only use the battery charger that came with your FC-6000A.* The FC-6000A requires a 30W or higher power supply with a 12V output to power the field computer and charge the batteries at the same time within the specified 4-6 hour time frame. Anything less will not allow the FC-6000A to operate as specified.

Battery Life

Battery life on a full charge is about 12 hours for the removable battery and an additional 5-6 hours for the internal battery. Battery life varies depending on the applications used, backlight usage, and radio usage.

The shelf life for battery packs is about one year. The battery packs should be recharged at least once per year. This prevents the battery packs from discharging to a level that might damage the batteries. Battery packs that are not recharged at least every year could fail to work or may have reduced capacity. Battery packs typically last 1,000 to 3,000 charging cycles.

⚠ CAUTION: Only use batteries designed for the FC-6000A from an approved vendor. Use of non-approved batteries may void your

product warranty. The FC-6000A must be returned to the factory for replacement of the internal battery.



CAUTION: The unit is not designed to run on external power without a battery installed. Doing so can damage internal components of your unit and void the warranty.

Powering Off the FC-6000A

Charge the FC-6000A to 100% using the wall charger that came with the device, then power it off.

1. Press and hold the power button for 2-3 seconds.
2. A menu appears with *Power off*, *Restart*, and *Screenshot* options. Tap *Power off*.

Powering Off for Long-Term Storage

To power off the FC-6000A for long-term storage (two weeks or more), follow these steps:

1. Power off the FC-6000A as described in the previous section, *Short-term Storage*.
2. Press and hold the power button for 20 seconds. This disconnects the batteries from the system.
3. Take out the removable battery and store it in a cool, dry location.
4. When you are ready to power on the FC-6000A, replace the battery pack. Plug in the AC wall charger and connect it to the FC-6000A BEFORE you power it on.

How to Handle a Locked Up Unit

If the FC-6000A is completely stuck and won't respond, hold the power key down for 2 to 3 seconds to see if the menu with the "Power off" option appears, and select that operation. If that doesn't work, hold the power key down for 10 seconds. This causes a hardware shut off. Press the power key again to power it on.

If 10 seconds doesn't work, hold the power button down for 20 seconds. Batteries are forced to electrically disconnect from the field computer, causing a complete shut down. The field computer cannot be powered on again until an external power supply is attached. Keep this in mind if you are in the field.

! **CAUTION:** Forcing a shut-down while the unit is running can cause damage to the device. NEVER do this to power off a FC-6000A in normal circumstances.

LED Activity Indicators

LED activity indicators are located on the front of the FC-6000A in the upper-left corner.

- Red LED, solid: The AC wall charger is plugged in and the battery is full (not charging).
- Red LED, blinking: The AC wall charger is plugged in and the battery is in the process of charging.
- Blue LED: Android notifications.
- Green LED: Custom programmable by applications.

Data Storage Options

SD Cards

The FC-6000A has a slot for a micro SD card located in the battery compartment. The card slot and flexible card holder are designed to hold the card securely in place so it will not come out or disconnect if the field computer is dropped.

To insert or remove a card, follow these steps:

1. If you are removing a card, go to *Settings > Storage* and under *SD card*, tap the eject icon. You can also swipe down to access the notification center and select *EJECT* under the SD card notification. Otherwise, go to step 2.
2. Power off the field computer.
3. Remove the battery door as outlined in *Chapter 1*.

! **CAUTION:** The FC-6000A is not sealed against water and dust when the battery pack and battery door are not installed properly.

! **CAUTION:** Always power off the field computer before removing the battery. Failure to do so may cause loss of data or damage to the field computer. **EXCEPTION:** If your field computer has a charged internal battery, this caution does not apply. You can safely remove the removable battery while the unit is running.

4. Remove the battery pack by pulling up on the black tab on the battery pack.
5. An image on the battery compartment label shows the correct location and orientation for the SD card. Pull the flexible card holder back out of the way. To insert a card, push the card into the slot. To remove a card, pull it out. Use tape or an eraser if you have trouble grabbing it.



6. Push the flexible card holder back into place, covering the card slots.
7. Replace the battery pack and attach the battery door as explained in Chapter 1.
8. To view and manage an inserted card, power on the FC-6000A and go to *Settings > Storage*. Under *SD card*, make sure the card has mounted so you can access the files. You can manually mount it if necessary by tapping *Mount*. To erase the contents, tap *Erase*. Before removal, tap *Eject*. After a few seconds a message is shown that says *Removable storage will be ejected*. Wait until it disappears to remove the card. This ensures that any ongoing activities with the USB Storage Device are terminated properly.

USB Ports

The FC-6000A is equipped with two USB ports:

- **USB 2.0 host port:** Attach a USB storage device like a thumb drive to transfer data to and from the FC-6000A. You can also use this port to plug in a mouse or keyboard.
- **USB-C port:** This port can be used to attach a PC to the FC-6000A, allowing you to directly transfer files between these devices. It can also be used with an OTG adapter to plug in a mouse or keyboard. A multi-purpose USB-C hub can be plugged in, providing ethernet and multiple USB ports.

Note: The FC-6000A does not charge through the USB-C port.

USB-C File Transfer

For transferring files, connect a computer to the FC-6000A via the USB-C port. Go to *Settings > Connected Devices > USB*. Under *Use USB for* select *File Transfer* or *USB tethering*.

Sensors

Compass, Gyroscope, and Accelerometer

The FC-6000A has a built-in compass, gyroscope, and accelerometer. The accelerometer assists the compass in determining direction, even when the device is not resting flat. The gyroscope senses change in angular motion. The compass, accelerometer, and gyroscope can also be used by other user applications. The compass and gyroscope have been factory calibrated.

Bluetooth Wireless Communication

To create a partnership between the FC-6000A and another device with *Bluetooth®* wireless communication, follow these steps:

1. Turn both devices on.
2. Place them within a few feet of each other. (The FC-6000A has long range *Bluetooth* technology, but the other device might not.)
3. Make *Bluetooth* technology discoverable on both devices. It is off on the FC-6000A by default. You can quickly check on the status by swiping down from the top of the screen to view the Quick Settings. If the *Bluetooth* icon is gray, it is off. Tap and release the icon to turn it on. The icon turns green. (You can also toggle it on and off in Settings).
4. Touch and hold the *Bluetooth* icon to open *Connected Devices* in Settings. Select *Connection preferences > Bluetooth*. Select *Pair new device*. A list of discoverable devices is shown. Tap on the name of the device in the list you want to pair with. A *Bluetooth* device pairing request box is shown. If prompted, enter the PIN or pass code of the device you want to pair with. The devices should now be paired.

Note: If Bluetooth technology is on and the field computer enters sleep or hibernate mode, Bluetooth technology turns off to save battery power. The connection is resumed once it powers back on.

Wi-Fi Wireless Networking

To use Wi-Fi, you need to be in range of a Wi-Fi access point to make a connection. To set up Wi-Fi, follow these steps:

1. To activate Wi-Fi, swipe down from the top of the screen to view the Quick Settings. Tap and hold the Wi-Fi icon to turn Wi-Fi on and open Wi-Fi in Settings.
2. The FC-6000A automatically starts scanning the area for available Wi-Fi networks. A list is shown. Select the network you want to use and enter the network password (for locked networks). The FC-6000A remembers the Wi-Fi network connections created.
3. From Settings, tap the network you selected to view information like *Link speed*. Additional networks can be added and WiFi preferences can be selected.

NFC Short-Range Wireless Technology

NFC tags can be scanned by holding the tag against the FC-6000A NFC antenna located inside the back of the unit under the regulatory symbols on the serial number label.



Note: NFC does not support secure transactions.

GPS/GNSS

The FC-6000A uses an integrated GPS/GNSS receiver with an internal antenna to provide position information.

GPS/GNSS Support


The Android operating system provides built-in support for GPS/GNSS devices. As part of that support, Android Location Services provides a standard way for GPS/GNSS information to be made available to applications that have been designed using the Android Location Services application programming interfaces (APIs). GPS is always on by default and cannot be turned off. To select your desired configuration of GNSS satellite constellations, go to *Settings > GNSS Settings*.

GPS/GNSS Accuracy

The GPS/GNSS antenna is located at the top of the FC-6000A above the ambient light sensor when it is held in portrait view. It is intended to work in both portrait view and landscape view. Do not put your hand or another object over this area. Accuracy could be reduced. The more items between the antenna and the satellites, the lower the accuracy.

Camera

The FC-6000A has a front facing camera that is 2 MP and a rear facing camera that is 16 MP.

By default the camera application can be accessed by quickly pressing the hardware power  button twice. It can also be found in the apps list and can be placed on the Home screen. Still images and videos can be captured from the camera application. Other options such as timer, flash, and switching between front and back cameras are available. More options are shown in settings such as location tagging, aspect ratio, and image resolution.

4G LTE Data Modem

The 4G LTE data modem provides Wireless Wide Area Network data modem capability.

This modem supports service providers in North America, Europe, and many other regions of the world It is multi carrier capable. Refer to frequency bands and modes supported by the FC-6000A located in *Appendix D, Specifications*, and your service provider of choice for compatibility.

Set up a Data Account with a Wireless Provider

Contact a wireless provider to set up data service for the cellular data modem and obtain an account and micro SIM card. Provide the following information:

1. Billing Information and business ID, such as your Federal Tax ID or VAT number.
2. The wireless services required. You only need data service. You do not need voice or messaging services.
3. You may be asked for the modem's IMEI number. Go to *Settings > About Field computer* to see the IMEI number.

Install the SIM Card

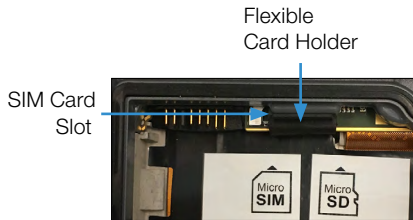
The card slot and flexible card holder are designed to hold the card securely in place so it will not come out or disconnect if the field computer is dropped. To insert or remove a card, follow these steps:

1. Power off the field computer.
2. Remove the battery door and battery pack as outlined in *Chapter 1*.



CAUTION: The FC-6000A is not sealed against water and dust when the battery door is not installed properly.

3. An image on the battery compartment label shows the correct location and orientation for the SIM card. Pull the flexible card holder back out of the way. Push the card into the slot to insert it.



4. Push the flexible card holder back into place, covering the card slots.
5. Replace the battery pack, and attach the battery door.

To remove the SIM card, gently pull it out with tweezers or a piece of tape.

Optional Accessories

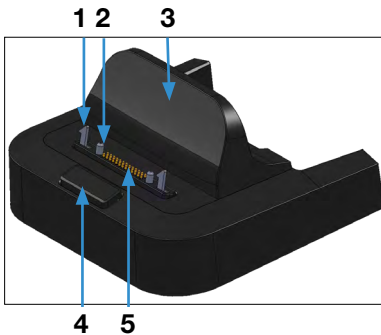
This chapter discusses the optional features that can be included with the FC-6000A Field Computer.

Office Docking Station

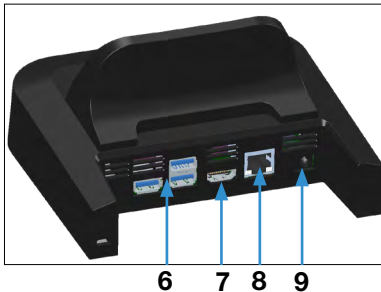
The Office Docking Station enables you to perform the following functions:

- Charge your FC-6000A Field Computer
- Use your FC-6000A as a desktop computer
- Transfer data to or from another computer or network via the Ethernet connection

Dock Features



- 1 Lock Latch (2)
- 2 Alignment Pin (2)
- 3 Back Rest
- 4 Release Button
- 5 Docking Pins
- 6 USB Ports, Host (3)
- 7 HDMI Port
- 8 Ethernet Port
- 9 Power Input Jack



Ports

- The USB ports are for attaching devices to the FC-6000A such as a mouse, keyboard, or external storage device.
- The HDMI port is for connecting a 1920 x 1080 resolution 60Hz video monitor to the FC-6000A, giving you a second monitor.
- The Ethernet port is used for networking (an Ethernet cable is not included).

How to Use the Dock

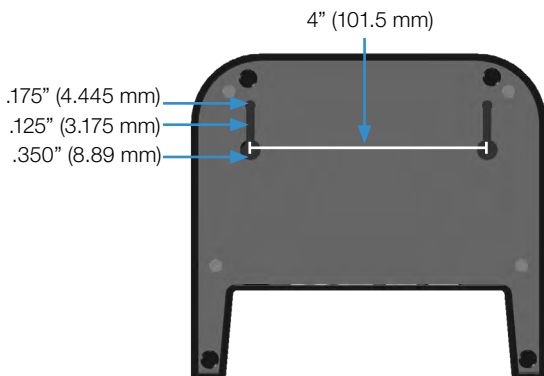
1. On the FC-6000A, make sure Auto-rotate is turned on (see Chapter 2, Auto-rotate the Screen).
2. Provide power to the dock using the 30 W AC wall charger provided with your FC-6000A (the ports require external power). A 45 W charger is available as an option, and we recommend this charger if you are using the dock as an office computer with several peripheral functions. The 30 W AC wall charger might not provide enough power to charge the batteries and run the FC-6000A.
3. Plug in the cables for your desired setup.
4. If a hand strap is covering the pin contacts on the FC-6000A, unhook one end or remove it.
5. Hold the FC-6000A in portrait mode with the docking pin contacts facing down. Place it over the dock alignment pins and press down until you feel and hear the lock engage.
6. To remove the FC-6000A from the dock, press on the release button and pull the FC-6000A up.

Adding a Video Monitor or Projector

To connect to a 1920 x 1080 resolution 60Hz video monitor to the FC-6000A, plug the device into the HDMI port.

Mounting the Dock to a Surface

The Office Docking Station is freestanding. It can also be mounted to a surface like a desk or shelf. There are keyhole slots on the bottom for this purpose.



Ethernet Specifications

- 10/100/1000 Mbps twisted-pair Ethernet
- IEEE802.3/802.3u/802.3ab 10BASE-T, 100BASE-TX, and 1000BASE-T
- Manages twisted pair crossover detection and correction
- Full-duplex and half-duplex capability (only full-duplex operation at 1000 Mbps)

Maintenance and Environmental Issues

- The dock is intended for indoor use only.
- Temperatures should be between 0°C to 50°C.
- Avoid using the dock in situations where water can enter the connector ports. It is not sealed against water and must be kept dry.
- Do not touch the docking pins with conductive items when power is applied to the dock.
- Do not drop items on the dock that can damage the docking pins.
- Keep debris off of the docking pins.
- The FC-6000A docking pin contacts are always powered on when it is docked. If you are using the FC-6000A in a potentially corrosive location when it is not docked, the pin contacts can be turned off in *Settings > Dock Control*.

Battery Charger

The Battery Charger is an optional accessory, allowing you to charge spare battery packs for the FC-6000A.

How to Use the Battery Charger

Batteries charge best at room temperature (about 68°F or 20°C). Batteries will not charge (or might charge slowly) at temperatures below 32°F (0°C) or above 122°F (50°C).

Power the Battery Charger by using the AC wall charger provided with your battery charger kit or your FC-6000A. Slide the battery pack into the battery charger, orienting it so that the battery contacts meet the charging contacts in the battery charger. The red LED flashes slowly, indicating that the battery pack is charging.

LED Indicator for Battery Pack

The LED indicates the charging status:

- Solid, on: The battery pack is fully charged.
- Blinking (slow): The battery pack is charging.
- Off: There is no power. The battery is not charging.

Storage, Maintenance and Recycling

Follow the instructions in this chapter to properly maintain and recycle the FC-6000A.

Storing the FC-6000A and Battery Pack

When the field computer is not being charged and is in a sleep state, it draws a small amount of power. This power draw is used to maintain the memory (RAM) of the field computer in the same state it was in when it was awake. We recommend charging the field computer each night or weekend when it is in a sleep state.

Note: Data and programs are secure as long as they have been saved, even if the battery pack becomes discharged. The field computer does not depend on the battery to store the data for extended periods.

Storing the FC-6000A for More than Two Weeks

To store the field computer for two weeks or more, complete the following steps:

1. Charge the battery pack 30 to 50 percent.
2. Close all running programs, and turn off the field computer.
3. Remove the battery pack.
4. If you have an internal battery pack, press and hold the power button for 20 seconds to disconnect it.
5. Place the battery pack in a cool, dry location.



CAUTION: Read the battery warnings in Appendix C.

6. The AC wall charger must be plugged in and connected to the FC-6000A in order to turn it on after storage.

Protecting the Touchscreen

Protect the touchscreen from impact, pressure, or abrasive substances that could damage it. To further protect the touchscreen, apply a screen protector (optional accessory) using the directions that come with it in the package.



CAUTION: Be sure to replace the screen protector as often as the screen protector instructions recommend.

Cleaning the FC-6000A

Make sure the battery door is securely installed. Remove the screen protector if you want to clean underneath it. Use warm water, a mild cleaning solution, and a soft bristle brush to gently clean the FC-6000A.

⚠ CAUTION: Do not direct a high-pressure stream of water at the device to clean it. This action could break the seal, causing water to get inside the device and voiding the warranty.

⚠ CAUTION: Exposure to some cleaning solutions may damage your device, including automotive brake cleaner, isopropyl alcohol, carburetor cleaner, and similar solutions. If you are uncertain about the strength or effect of a cleaner, apply a small amount to a less visible location as a test. If any visual change becomes apparent, promptly rinse and wash with a known mild cleaning solution or with water.

Recycling the FC-6000A and Batteries

When the FC-6000A and Li-Ion battery packs for your FC-6000A reach the end of their service life, they must not be disposed of with municipal waste. It is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of electrical and electronic equipment.

Warranty and Repair Information

Limited Product Warranty

Two Year Warranty

Topcon, Inc. ("TPS") warrants that the FC-6000A Field Computer and internal battery shall be free from defects in materials and workmanship, under normal intended use, for a period of 24 months from the date of shipment.

Ninety Day Warranty

TPS warrants that the following items shall be free from defects in materials and workmanship, under normal intended use, for a period of ninety (90) days from the date of shipment:

- User replaceable battery packs
- User documentation
- Accessories

Warranty Exclusions

This warranty shall not apply if:

- (i) the product has been set up improperly or has been improperly installed or calibrated,
- (ii) the product is operated in a manner that is not in accordance with the user documentation,
- (iii) the product is used for a purpose other than for which it was designed,
- (iv) the product has been used in environmental conditions outside of those specified for the product,
- (v) the product has been subject to any modification, alteration, or change by or on behalf of customer (except and unless modified, changed or altered by TPS or under direct supervision of SC),
- (vi) the defect or malfunction results from misuse or accident,
- (vii) the serial number on the product has been tampered with or removed, or
- (viii) the product has been opened or tampered with in any way (such as the tamper evident VOID label indicating certified IP [Ingress Protection] seal area has been tampered with or removed).

Parts that are excessively worn are not covered under warranty. These may include, but are not limited to, the keyboard elastomer and switch matrix, hand straps, and the touch screen (if applicable).

This warranty is exclusive and TPS will not assume and hereby expressly disclaims any further warranties, whether express or implied, including, without limitation, any warranty as to merchantability, fitness for a particular purpose, non-infringement or any warranties arising from the course of performance, dealing, or usage of trade. TPS specifically makes no warranties as to the suitability of its products for any particular application. TPS makes no warranties that

- its products will meet your requirements or will work in combination with any hardware or applications software products provided by third parties,
- the operation of its products will be uninterrupted or error free, or
- all defects in the product will be corrected.

TPS shall not be responsible for software, firmware, information, or memory data contained in, stored on, or integrated with any products returned to TPS for repair, whether under warranty or not.

Remedy

In the event a defect in materials or workmanship is discovered and reported to TPS within the specified warranty period, after evaluation by a technician at a certified repair center, TPS will, at its option, repair the defect or replace the defective part or product. Replacement products may be new or reconditioned. TPS warrants any replaced or repaired product for a period of ninety (90) days from the date of return shipment, or through the end of the original warranty period, whichever is longer.

Limitation of Liability

To the fullest extent allowed by law, the obligation of TPS shall be limited to the repair or replacement of the product. TPS shall in no event be liable for special, incidental, or consequential, indirect, special or punitive damages of any kind, or for loss of revenue or profits, loss of business, loss of information or data, or other financial loss arising out of or in connection with the sale, installation, maintenance, use, performance, failure, or interruption of any product. Any responsibility and/or liability of TPS shall, in

connection with a warranted product, be limited in the maximum amount to the original purchase price.

Governing Law

This warranty is governed by the laws of Utah, U.S.A. and excludes the United Nations Convention on Contracts for the International Sale of Goods. The courts of Utah shall have exclusive personal jurisdiction in case of any disputes arising out of or in connection with this warranty.

Repairs



CAUTION: Do not attempt to repair the FC-6000A yourself. This action voids the warranty.

Information about repairs, upgrades, and evaluations is located on our website at <https://www.topconpositioning.com/na/support> then Repairs. You can locate a repair center, submit a repair order, check repair status, view terms and conditions, get shipping instructions, and view lead times.

Warranty Repairs

Warranty information for the FC-6000A Field Computer is located on our website at <https://www.topconpositioning.com/na/support>. You can evaluate and order service plans, check warranty status, and view warranty terms and conditions.

Standard repair orders and 3-Day Expedite Service repair orders are valid for 30 days from the date issued. 1-Day Expedite Service repair orders are valid for 7 days from the date issued. If you will not be sending the product to us immediately, please wait to request a repair until closer to the time when you are ready to send us the product.

Services and Materials Provided Under Warranty

- Analysis of problem by service technician
- Labor and materials required to fix defective parts
- Functional analysis performed after repair
- Shipping costs to return device to customer

TPS strives to provide continued full repair services for our products for 3 to 5 years from the end of life announcement of a product model. However, in some rare cases (depending on the repair need), it may not be possible to perform a repair due to an unforeseen discontinuation or lack of supplied parts from third-party vendors. Repair support for a product may continue beyond five years if obtaining replacement parts or tools remains economically feasible. Our policy is that we will do what is best and most beneficial for our customers and company.

Submitting a Repair Order

Before returning a unit, please get permission by submitting a repair order from our website and waiting for confirmation or by contacting a repair center directly. Be prepared to provide the following information:

- The product serial number. Information about your FC-6000A is shown when you go to Settings > About field computer. The serial number is located on the back of the unit as well.

Note: Before opening the battery door and removing the battery, see the proper procedure in Chapter 2, Power Management.

- Name and shipping address of company/university/agency.
- Best contact method (phone, email, cell/mobile).
- Clear, highly-detailed description of the repair or upgrade.
- Credit card/purchase order number and billing address (for a repair or upgrade that is not covered by the standard warranty or an extended warranty policy).

System Information for your FC-6000A

You might be asked to provide additional information about your FC-6000A when you contact a repair center. To view information like the operating system edition, OS build and serial number, go to Settings > About Field computer.

Complete Care Service Plans

We offer service plan options that provide additional benefits through participating repair centers. Services include.

For more information about our Complete Care service plans, go to our website at <https://www.topconpositioning.com/na/support>.

Warnings, Regulatory Information and Licensing

Product Warnings

Follow the warnings listed below to use the FC-6000A batteries and AC wall charger safely.



Battery Warnings

WARNING! This device comes with a lithium-ion rechargeable battery pack. To reduce the risk of fire or burns, do not disassemble, crush, puncture, short external contacts, or expose the battery pack to fire.

Do not disassemble or open, crush, bend or deform, puncture or shred.

Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.

Only use the battery for the system for which it is specified.

Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.

Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.

Replace the battery only with another battery that has been qualified with the system.

Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard.

Promptly dispose of used batteries in accordance with local regulations.

Battery usage by children should be supervised.

Avoid dropping the battery. If the battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.

Improper battery use may result in a fire, explosion or other hazard.

Keep the battery away from excessive heat and direct sunlight. Do not place it on heating devices such as microwave ovens, stoves, or radiators.

Battery may explode if overheated.

This product could contain a built-in battery that must be removed by a specialist.



CAUTION: Risk of explosion if the battery is replaced by an incorrect type.



Wall Charger Warnings

WARNING! To reduce the risk of personal injury, electrical shock, fire or damage to the equipment:

Plug the wall charger into an electrical outlet that is easily accessible at all times.

Do not place anything on the wall charger cord or any of the other cables. Arrange them so that no one may accidentally step on or trip over them.

Do not pull on a cord or cable. When unplugging the wall charger from the electrical outlet, pull on the plug, not the cord.

The AC wall charger must be approved by Topcon, have an output rating of 12 VDC and a minimum 2.5 A, and be certified or listed by a nationally recognized testing laboratory. The AC wall charger provided with the FC-6000A meets these criteria. Using any other external power source can damage your product and void your warranty.

Certifications and Standards

There are North America and European Union versions of the FC-6000A, with different certifications and standards.

United States

In compliance with the FCC rules 47 CFR 15.19(a)(3), the statements that follow must appear on the device or in the user documentation.

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

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

In compliance with the FCC rules, 47 CFR 15.105(b), the user must be notified that 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/TV technician for help.

In compliance with the FCC rules, 47 CFR 15.21, the user must be notified that changes or modifications to the Rugged Field computer that are not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Only approved accessories may be used with this equipment. In general, all cables must be high quality, shielded, correctly terminated, and normally restricted to two meters in length. Wall chargers approved for this product employ special provisions to avoid radio interference and should not be altered or substituted.

This device complies with FCC SAR exposure limits set forth for an uncontrolled environment. The equipment can be used in close proximity to the human body without any restrictions.

Canada

In compliance with Industry Canada rules, the following statement must appear on the device or in the user documentation:

This Class B digital apparatus complies with
Canadian ICES-003.

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.

Canadian regulations restrict the use of channels in the band 5150 MHz to 5250 MHz to indoor use only. When this product is connected with an access point that is operating in this frequency range, or when using ad-hoc mode, the use of this product is restricted to indoor use only.

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.

La réglementation canadienne restreignent l'utilisation des canaux dans la bande 5150 MHz à 5250 MHz pour une utilisation en intérieur. Lorsque ce produit est connecté à un point d'accès qui fonctionne dans cette gamme de fréquences, ou lorsque vous utilisez le mode ad-hoc, l'utilisation de ce produit est limitée à une utilisation en intérieur.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 0mm between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 0mm entre le radiateur et votre corps.

Radio Frequency Safety

This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment is in direct contact with the body of the user under normal operating conditions. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement est en contact direct avec le corps de l'utilisateur dans des conditions de fonctionnement normales. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec tout autre antenne ou transmetteur.

CE Marking (European Union)



Products bearing the CE marking comply with the EU Directive 2014/53/EU.

CE compliance of this device is valid only if powered with/by a CE-marked wall charger provided by the manufacturer. Cables connecting to the USB host port must use a ferrite core/bead on the cable. The ferrite core must be placed on the cable near the end that connects to the FC-6000A.

Declaration of Conformity

The Declaration of Conformity for CE Marking is available at: <https://www.topconpositioning.com/na/support>

European Radio Power

BAND	LOWER BAND EDGE (MHz)	UPPER BAND EDGE (MHz)	CONDUCTED POWER (dBm)
4G Data Modem			
GSM900	880	915	23
GSM1800	1710	1785	21
UMTS B1	1920	1980	21
UMTS B8	880	915	22
LTE B1	1920	1965	22
LTE B3	1710	1785	23
LTE B7	2500	2570	21
LTE B8	880	915	22
LTE B20	832	865	23
LTE B28	703	748	22
Bluetooth	2400	2483.5	9
Wi-Fi			
2.4 GHz WLAN	2400	2483.5	17
5.2 & 5.3 GHz WLAN	5150	5350	16
5.6 GHz WLAN	5470	5725	15
5.8 GHz WLAN	5725	2850	12
RFID			
Micro	865.6	867.6	27
Nano	865.6	867.6	14

Restricted Materials Conformity

The FC-6000 conforms to the following restricted materials regulations:

- RoHS 2011/65/EU
- Proposition 65

Licensing Information

This Product is licensed under the AVC, the VC-1 and the MPEG-4 Part 2 Visual patent portfolio licenses for the personal and non-commercial use of a consumer to (i) encode video in compliance with the above standards ("Video Standards") and/or (ii) decode AVC, VC-1 and MPEG-4 Part 2 Visual that was encoded by a consumer engaged in personal and non-commercial activity or was obtained from a video provider licensed to provide such video. None of the licenses extend to any other product regardless of whether such product is included with this product in a single article. No license is granted or will be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See www.mpegla.com.

No rights are given for Dolby patents used in the Dolby portion of this product. A list of relevant patents may be obtained from Dolby Laboratories, Inc. No rights are granted to any Dolby copyrights, including the right to reproduce or distribute any portions of this product that includes Dolby intellectual property. Licenses for these activities may be obtained from Dolby.

Any use of this product in any manner other than personal use that complies with the MPEG-2 standard for encoding video information for packaged media is expressly prohibited without a license under applicable patents in the MPEG-2 patent portfolio, which license is available from MPEG LA, LLC, 6312 S. Fiddlers Green Circle, Suite 400E, Greenwood Village, Colorado 80111 U.S.A.

FC-6000A Field Computer Specifications

Note: Specifications are subject to change without notice.

FEATURE	SPECIFICATION
Standard Configuration	Geo/Cell unit with internal battery pack, Wi-Fi, <i>Bluetooth</i> technology, NFC, 6 GB RAM, 64 flash storage, front and rear cameras, GNSS receiver, and 4G LTE modem
Operating System	<ul style="list-style-type: none">■ Android™ 9 by Google■ Android 11 by Google■ Android 14 by Google
Processor	<ul style="list-style-type: none">■ Octa-core Kryo™ 260 CPU, Qualcomm® Snapdragon™ SDM660 platform
Memory	<ul style="list-style-type: none">■ 6 GB RAM (LPDDR4x)
Primary Data Storage	<ul style="list-style-type: none">■ 64 GB flash storage
Micro SD/SDXC Card Slot	<ul style="list-style-type: none">■ SD/SDXC slot, user accessible
Physical Features	<ul style="list-style-type: none">■ Dimensions, standard: 5.4" wide x 8.48" long x 1.36" thick (137 mm x 215 mm x 35 mm)■ Weight: 1.5 to 2.2 lb (680-907 g) depending on battery configuration and internal options installed■ Durable, chemical- and shock-resistant design■ Easy-to-grip, impact-absorbing, overmolded bumpers
Display	<ul style="list-style-type: none">■ Active viewing area: 7" (178 mm)■ WXGA 800 x 1280 pixel resolution■ Backlit LCD■ Outdoor viewable■ Portrait or landscape orientation
Touchscreen	<ul style="list-style-type: none">■ Capacitive multi-touch interface for use with gloves, small tip stylus, and in wet conditions■ Chemically-strengthened Dragontrail™ High Ion-Exchange (HIE™) coverglass for impact and scratch resistance■ Touchscreen profile options

FEATURE	SPECIFICATION
Keyboard	<ul style="list-style-type: none"> ■ Programmable keys ■ Backlit keys
Batteries	<ul style="list-style-type: none"> ■ Removable Li-Ion battery pack: <ul style="list-style-type: none"> -7.2 V, 6 Ah, 43.2 Wh -Run time of up to 20 hours -Charging time 4 to 6 hours -Built-in battery intelligence -User-replaceable ■ Internal battery pack: <ul style="list-style-type: none"> 7.2 V, 3 Ah, 21.6 Wh battery provides an additional 50% of runtime and hot-swap capability (not user replaceable)
Connector Ports	<ul style="list-style-type: none"> ■ USB-C: <ul style="list-style-type: none"> -USB 3.1 OTG (no battery charging) -5V 1.5A max output ■ USB 2.0: <ul style="list-style-type: none"> -Host (full size A connector) -5V 500mA max output ■ Power input is 10 V - 16 V, nominal 12 VDC
Wireless Connectivity	<ul style="list-style-type: none"> ■ Long-range <i>Bluetooth</i>® wireless technology, v5.0 +EDR, Class 1.5, BLE support ■ Wi-Fi® 802.11 a/b/g/n/ac, 2.4 GHz and 5 GHz, 2x2 MIMO ■ 4G LTE, multicarrier capable ■ NFC Short Range Wireless Technology
Audio	<ul style="list-style-type: none"> ■ Mono speaker, loud and clear ■ Microphone, low noise
LED Activity Indicators	<ul style="list-style-type: none"> ■ Red: power applied/charging status ■ Green: Custom programmable by customer applications ■ Blue: Android notifications
Standard Sensors/Features	<ul style="list-style-type: none"> ■ Ambient light sensor ■ Compass ■ Accelerometer ■ Gyroscope

FEATURE	SPECIFICATION
Temperature Specifications	<ul style="list-style-type: none"> ■ Operating Temperature: -4°F to 122°F (-20°C to 50°C). Storage Temperature: -22°F to 158°F (-30°C to 70°C) ■ Battery Charging Temperature: 32°F to 122°F (0°C to 50°C)
Shock Resistance	<ul style="list-style-type: none"> ■ Withstands multiple 4 foot drops to concrete
Environmental Ratings and Standards	<ul style="list-style-type: none"> ■ IP68 rating (1.4 meters for 2 hours), waterproof and dustproof ■ Designed to MIL-STD810G. Tests: ME-60: sand & dust ME-51,53,& 54: X,Y,& Z-axis helicopter vibe ME-55, 56, & 57: X, Y, & Z -axis general vibe ME-52: Water Immersion, 1 meter ME-59: Aggravated Temperature-Humidity cycle ME-67: Temperature cycle ME-62: Temperature shock ME-66: Altitude
Certifications and Standards	<ul style="list-style-type: none"> ■ FCC Class B ■ CE Marking ■ Industry Canada ■ Australia (ACMA) ■ IEC/EN 62368 safety ■ <i>Bluetooth</i> SIG qualification ■ IP68 waterproof and dustproof ■ Designed to MIL-STD 810G ■ RoHS compliant ■ Proposition 65 compliant
Warranties	<ul style="list-style-type: none"> ■ 24 months for FC-6000A ■ 90 days for accessories ■ Extended service and maintenance plans are available

FEATURE	SPECIFICATION
Camera	<ul style="list-style-type: none"> ■ Resolution: 16 MP rear, 2 MP front ■ Auto focus (rear camera) ■ Video capture ■ JPEG image format ■ Flash (rear camera)
4G LTE Data Modem	<ul style="list-style-type: none"> ■ Qualcomm Snapdragon X12 LTE modem ■ Supports micro-SIM card only. Micro-SIM card header inside battery compartment with card detect feature and card retainer. ■ Does not support voice calls or SMS ■ Multi carrier capable <p><i>See more details at the end of this chapter</i></p>
GPS/GNSS	<ul style="list-style-type: none"> ■ 2 to 5 meter typical accuracy ■ Qualcomm SDR660 GNSS receiver and integrated antenna ■ Integrated real-time SBAS receiver (WAAS, EGNOS, etc.) ■ Supports GPS, GLONASS, Galileo worldwide plus BeiDou, QZSS outside of U.S.
Standard Accessories	<ul style="list-style-type: none"> ■ FC/SHC5000/6000 Adjustable Hand Strap (PN 1013589-01) ■ AC wall charger with international plug kit <ul style="list-style-type: none"> - Input: 100-240 VAC, 50/60 Hz, 0.8 A - Output: 12 VDC, 2.5 A ■ Capacitive fine tip stylus with tether ■ Quick Start Guide ■ Owner's Manual (on our website) ■ Two year warranty on FC-6000A

FEATURE	SPECIFICATION
Optional Accessories	<ul style="list-style-type: none"> ■ FC/SHC5000/6000 Grounded Stylus (PN 1028985-01) ■ FC/SHC5000/6000 Keyboard (Landscape) (PN 1029734-01) ■ FC/SHC5000/6000 RAM CLIP Mount Kit (PN 1015317-01) ■ FC/SHC5000/6000 RAM CLIP Only (PN 1015316-01) ■ FC/SHC5000/6000 Cradle w/Pole Claw (PN 1013399-01) ■ FC/SHC5000/6000 Ultra-Clear Screen Protector (PN 1013584-01) ■ FC/SHC5000/6000 Anti-Glare Screen Protector (PN 1013586-01) ■ FC/SHC5000/6000 Polarized Screen Protector (PN 1013587-01) ■ FC/SHC5000/6000 Adjustable Shoulder Strap (PN 1013588-01) ■ FC/SHC5000/6000 Adjustable Hand Strap (PN 1013589-01) ■ FC/SHC5000/6000 Stylus, Tether Replacement (PN 1013590-01) ■ FC/SHC5000/6000 Docking Station (PN 1013592-01) ■ FC/SHC5000/6000 Travel Charger (PN 1013593-01) ■ FC/SHC5000/6000 Vehicle Charger Cable (PN 1018399-01) ■ FC/SHC5000/6000 Holster Carrying Case (PN 1018400-01) ■ FC/SHC5000/6000 Flip Cover Fitted Case (PN 1018401-01)

FEATURE	SPECIFICATION
Optional Accessories (continued)	<ul style="list-style-type: none"> ■ FC/SHC5000/6000 4-Point Harness (PN 1018402-01) ■ Hard Carrying Case for FC/SHC5000/6000 (PN 1026489-01) ■ Soft Carrying Case for FC/SHC5000/6000 (PN 1026490-01) ■ FC/SHC6000 Removable Battery Pack (PN 1035028-01) ■ FC/SHC6000 Travel Charger Assembly (PN 1035030-01)

*** 4G LTE Data Modem - Additional Information**

Mode	Frequency Bands
LTE	B1, B2, B3, B4, B5, B6, B7, B8, B12, B13, B14, B17, B20, B28
UMTS/HSPA+	B1, B2, B4, B5, B8
GSM	GSM 850, EGSM 900, DCS 1800, PCS 1900

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