



Android™ 6-inch Rugged Handheld

USER MANUAL

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Part Number 30774-01



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



Contents

1. Getting Started	2
1.1 The Anatomy of the Archer 4.....	2
1.1.1 Battery Compartment and Card Slots.....	3
1.1.2 USB-C Port	3
1.1.3 Optional Expansion Pods.....	3
1.2 Perform Initial Tasks.....	3
1.2.1 Remove the Battery Door	4
1.2.2 Install/Remove the SIM/SD Card(s)	5
1.2.3 Install the Battery	5
1.2.4 Charge the Battery.....	7
1.2.5 Install the Hand Strap.....	7
1.2.6 Power on, Power off, or Restart.....	8
2. Standard Features	11
2.1 Operating System.....	11
2.2 Preloaded Apps.....	11
2.3 Installing Apps.....	11
2.4 Digital Assistant	12
2.5 Programmable Keys.....	12
2.6 Android Navigation.....	12
2.7 Display and Touchscreen.....	12
2.7.1 Home Screen	13
2.7.2 Touchscreen	13
2.7.3 Disable or Enable the Touchscreen	13
2.8 Power Management	14
2.8.1 Hot Swap Battery	14
2.8.2 Charging the Battery Pack.....	14
2.8.3 Removing the Battery for Long-Term Storage	15
2.8.4 How to Handle a Locked Up Unit.....	15
2.9 LED Activity Indicators	16
2.10 Data Storage Options	16

2.10.1	Flash Data Storage	16
2.10.2	Micro SD Storage	16
2.11	Compass, Accelerometer, and Gyroscope	17
2.11.1	Compass Calibration	17
2.12	Bluetooth Wireless Communication	17
2.13	Wi-Fi Wireless Networking	18
2.14	Cellular Networking	19
2.15	Near Field Communication (NFC)	19
2.16	GNSS Location	20
2.16.1	GNSS Accuracy	20
2.17	Camera	20
2.17.1	Camera and Video Settings	21
2.17.2	GNSS Metadata	21
2.18	Fingerprint Scanner	21
2.19	Share Files	21
2.19.1	USB-C Cable to PC	22
2.19.2	USB-C Storage Device	22
3.	Optional Expansions	24
3.1	1D/2D Barcode Scanner	24
3.2	Sub-meter GPS/GNSS	26
3.2.1	Install GPS/GNSS Antenna Expansion	26
3.2.2	Set Up Archer 4 to use GPS/GNSS Antenna ..	27
3.2.3	Install the Hand Strap with GNSS Antenna ...	27
4.	Storage, Maintenance, and Recycling	30
4.1	Storing the Archer 4 for More than Two Weeks	30
4.2	Cleaning the Archer 4	30
4.2.1	Touchscreen	30
4.2.2	Case, Bumpers, and Connector Module	30
4.3	Recycling the Archer 4 and Batteries	31
5.	Warranty and Repair Information	33
5.1	Limited Product Warranty	33
5.1.1	2-Year Warranty	33
5.1.2	Ninety Day Warranty	33
5.1.3	Warranty Exclusions	33

- 5.1.4 Remedy34
- 5.1.5 Limitation of Liability35
- 5.1.6 Governing Law35
- 5.1.7 Warranty Service35
- 5.1.8 Warranty Repairs.....35
- 5.2 Complete Care Service Plan.....36
- 5.3 Repairs, Upgrades, and Evaluations37
- 5.4 Extended Warranties.....38
- 5.5 System Information for your Archer 438
- 6. Product Warnings 40**
 - 6.1 Battery Warnings 40
 - 6.2 USB Charger and Cable Warnings..... 41
 - 6.3 Certifications and Standards..... 41
 - 6.3.1 United States..... 41
 - 6.3.2 Canada..... 44
 - 6.3.3 European Union 48
- 7. Archer 4 Rugged Handheld Specifications 51**
 - 7.1 Expansion Specifications56

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Android™ 6-inch Rugged Handheld



CHAPTER 1

1. Getting Started

The Archer™ 4 Rugged Handheld powered by Android™ features *Bluetooth*, Wi-Fi, two programmable keys, fingerprint sensor, and a GNSS/GPS receiver. Standard accessories include a lithium-ion battery, hand strap and attachment loop, USB-C cable and charger, international plug heads, and T6 screw driver A barcode scanner and a sub-meter GNSS antenna are expansion options.

1.1 The Anatomy of the Archer 4

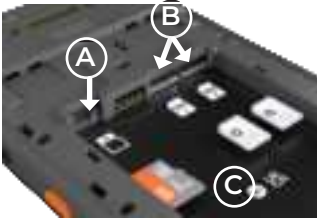


- A Power Button
- B Volume Up
- C Volume Down
- D Programmable Key P1
- E Proximity Sensor
- F Ambient Light Sensor
- G 16 MP Front Camera
- H RGB LED Indicator
- I Front Speaker
- J Fingerprint Sensor
- K Programmable Key P2



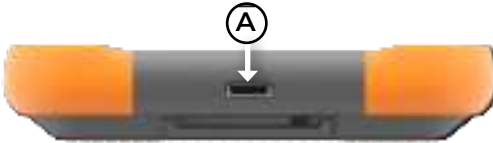
- L Camera Flash/Flashlight
- M 48 MP Rear Camera
- N Expansion Pod Attachment
- O Rear Speaker
- P Battery Door Locks
- Q Battery Door
- R Microphone
- S Hand Strap Mounting Loop

1.1.1 Battery Compartment and Card Slots



- A Micro SD Card Slot
- B Two Nano SIM Slots
- C Battery Compartment

1.1.2 USB-C Port



- A USB-C Port

1.1.3 Optional Expansion Pods



- B Barcode Window (optional)



- C GNSS Antenna

1.2 Perform Initial Tasks

When you receive your Archer 4, perform the tasks outlined in this section before the first use.

1.2.1 Remove the Battery Door

Access the battery compartment from the back of the handheld.

1. Slide both battery door locks down.



2. Remove the door.
If the hand strap has been installed, loosen it from the top mounting loop to remove the battery door.

⚠ CAUTION: The Archer 4 is not sealed against water and dust when the battery door is not installed.



1.2.2 Install/Remove the SIM/SD Card(s)

If you are using a nano SIM card and/or a micro SD card, install them now, before you install the battery pack, or at another time. To insert or remove a card orient the card(s) as depicted in the image on the battery compartment label.



- Push a card into the slot to insert it.
- Push a card out of the slot to remove it.

1.2.3 Install the Battery

1. Place the Li-Ion battery pack in the battery compartment.

Holding the battery at an angle, position the top of the battery into the compartment aligning the grooves on the top of the battery with the tabs inside. Press the bottom edge of the battery into the compartment.



2. Insert the three tabs on the battery door into the slots around the lower hand strap mounting loop.



3. Working from the bottom of the door toward door locks, press the door tabs along the sides of the door into place.



4. Slide the battery door locks into the locked position.



CAUTION: The battery door latches must be in the locked position for the NFC to work.

1.2.4 Charge the Battery

1. Plug in the USB charger and cable and connect it to the Archer 4.

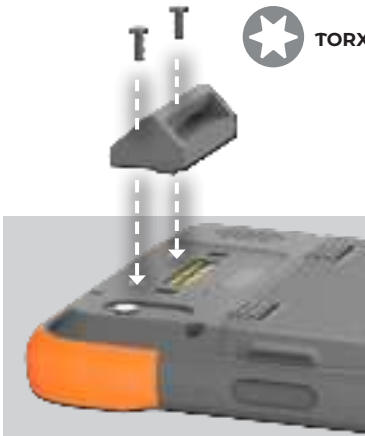
The RGB LED indicator changes from red to yellow to green as the battery charges from a low power charge to fully charged. Charge the battery pack for 4-6 hours at room temperature. See [2.8.2 Charging the Battery Pack](#) on page 14.

1.2.5 Install the Hand Strap

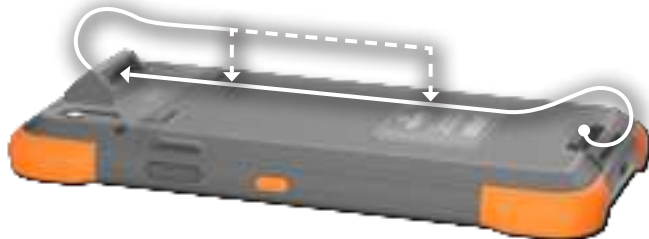
1. Remove the POGO pin cover.



2. Position the upper hand strap mounting loop over the expansion pod attachment.
3. Press the tabs into the slots.
4. Use the two screws to screw in the upper hand strap mounting loop to the Archer 4. The two screws are M2-5 3 wafer head Phillips black oxide screws.



5. Position the hand strap with the Velcro® facing down. Thread the hand strap through the bottom mounting loop.



6. Thread the Velcro through the upper mounting loop.
7. Fold the Velcro back over the upper mounting loop and affix to itself.

1.2.6 Power on, Power off, or Restart

To power on your Archer 4,

1. Press and hold the power key for 3 seconds.



2. Swipe up to reveal the Home Screen.



To power off,

1. Press both power and volume up.



2. Tap **Power Off**.

If you want to restart the handheld, tap Restart instead of Power Off.

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CHAPTER 2

2. Standard Features

This chapter discusses the standard features included on all Archer 4 models.

2.1 Operating System

This Archer 4 is powered by the Android 14 operating system. Update the device-specific drivers, firmware, and apps from [Release Notes for Archer 4](https://junipersys.com/Release%20Notes%20for%20Archer%204) at junipersys.com/support.

2.2 Preloaded Apps

The Archer 4 comes with preloaded apps. To view all of the preloaded apps,

1. Swipe up from the Home screen.

2.3 Installing Apps

Use Google Play, located on the Home screen, to download additional apps.

If you would like to install Android apps without using Google Play, you can sideload an apk file using a PC and USB cable to connect to your handheld.

1. Connect a USB cable from your Archer 4 to your PC.
2. From Setting > About phone, tap **Build Number** seven times.
3. Enter the device PIN. The PIN was created when you first set up the handheld.
4. From Settings > System > Developer Options, select **USB debugging**.
5. From Settings > Connected Devices > USB, tap **File Transfer**.

You will only see the File Transfer option if there is a USB cable plugged in to both your PC and Archer 4.

With file transfer set, you can move an apk file from your PC to your Archer 4. Once the apk file is saved on your handheld, open it to complete the installation process.

2.4 Digital Assistant

Press and hold the power button to activate the digital assistant.

2.5 Programmable Keys

The Archer 4 has two keys that you can program from Settings > Programmable Keys. By default the P1 key displays the Home screen. The P2 key shows the apps that you have used recently (App Select function). The following functions/values can be assigned to either of the keys.

None	Enter	Space
Back	Touchscreen	Backspace
Home	Enable/Disable	Camera Capture
App Select	Screenshot	Scan
Volume Up	Tab	Numbers 0–9
Volume Down	Left	. (period)
Brightness UP	Right	-
Brightness Down	Up	F1–F12
Menu	Down	

2.6 Android Navigation

The Archer 4 uses the default Android navigation.

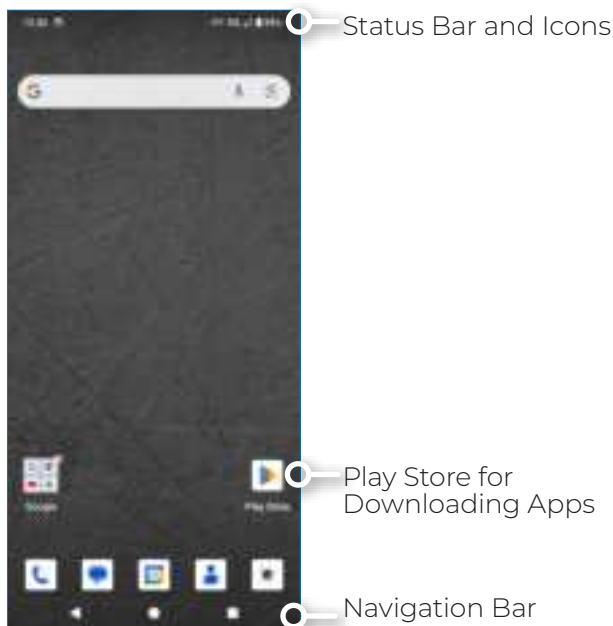


2.7 Display and Touchscreen

To adjust display settings including brightness, wallpaper, sleep interval, font size, and orientation, go to Settings > Display.

2.7.1 Home Screen

The Home screen consists of the following elements.



2.7.2 Touchscreen

The touchscreen of the Archer will function in a wide variety of settings. You do not need to make any change for the screen to work in wet conditions.

2.7.3 Disable or Enable the Touchscreen

The touchscreen on the Archer 4 can be disabled. This is useful when you are running an app and you want to see the screen while avoiding accidental touchscreen activation. The touchscreen can also be disabled for cleaning purposes.

To disable the touchscreen, it is necessary to program one of the programmable keys to provide this functionality.

From Settings > Programmable Keys,

1. Select a key to program (P1 or P2).
2. Tap **Touchscreen Enable/Disable**.

This programmed key will now function as the On/Off switch for the touchscreen.

While the touchscreen is disabled, the  icon displays in the Status bar.

2.8 Power Management

The Archer 4 uses a Li-Ion rechargeable battery pack. There are two battery options.

- 4500 mAh, fully charged lasts 8 hours or more under standard conditions
- (Optional) 8300 mAh, fully charged lasts 18 hours or more under standard conditions

Battery life varies depending on the backlight, open apps, GNSS use, and radio usage.

 **CAUTION:** Do not install the battery door without the primary battery installed. If you do the handheld will immediately turn off and any unsaved data will be lost.

 **CAUTION:** Only use batteries designed for the Archer 4 from an approved vendor. Use of non-approved batteries may change performance and will void your product warranty.

Although it is not possible to overcharge the Archer 4 battery pack, leaving it connected to the charger long-term may damage the Li-ion battery.

2.8.1 Hot Swap Battery

An internal secondary battery gives up to five minutes of time for you to change batteries without losing data or damaging your handheld. When you opt to hot swap your battery, the handheld screen will dim and a notification will display.

 **CAUTION:** Do not power the Archer 4 with a USB charger and cable while replacing or removing the primary battery.

2.8.2 Charging the Battery Pack

The Li-Ion battery pack is charged most efficiently at room temperature (68°F or 20°C), but it will still charge at any

temperature between 41° and 113° F (5° to 45° C). The battery may not charge outside of this range.

2.8.3 Removing the Battery for Long-Term Storage

To power off the Archer 4 for long-term storage,

1. Charge/discharge the battery to 30–50%.
2. Press both power and volume up keys.



3. Tap **Power Off**.
4. Take out the battery pack. Store it in a cool, dry location.

Check the stored battery after three months. If the battery is discharged below 30%, charge it to at least 30%.

When you are ready to power on the Archer 4,

1. Replace the battery pack.
2. Plug in the USB charger and cable and connect it to the Archer 4.
3. Power on the Archer 4.

2.8.4 How to Handle a Locked Up Unit

If the Archer 4 is completely unresponsive,

1. Press the power and volume up keys.
2. Tap **Restart**.

If restarting the handheld does not work, force it to shut down.

1. Press and hold the power key for 18 seconds.

▲ CAUTION: Forcing a shut-down while the unit is running can cause damage to the device. NEVER do this to power off an Archer 4 in normal circumstances.

2.9 LED Activity Indicators

LED activity indicators are located at the top of the screen.



LED Color	Meaning
Red, solid	Battery charge less than 20%. Charger connected.
Red, blinking	Battery charge less than 20%. No charger connected. Screen on.
Yellow, solid	Battery charge 21–90%. Charger connected.
Green, solid	Battery charge above 90%. Charger connected.

As the Archer 4 charges, the LED transitions from red to yellow to green. The yellow and green color can be difficult to distinguish if not looking at the device with the screen at a 45–60° angle relative to your gaze.

2.10 Data Storage Options

2.10.1 Flash Data Storage

The Archer 4 has 128 GB of internal flash data storage. You can see how much storage is available and how it is being used (storing apps or images, for example) from Settings > Storage.

2.10.2 Micro SD Storage

The Archer 4 has up to 512 GB of micro SD storage.

2.11 Compass, Accelerometer, and Gyroscope

The Archer 4 has a built-in compass, accelerometer, and gyroscope. The accelerometer assists the compass in determining direction, even if the handheld is not resting flat. The gyroscope senses change in angular motion. The compass, accelerometer, and gyroscope can also be used by other user applications.

2.11.1 Compass Calibration

Periodically calibrate the compass in your handheld to help maintain its performance.

To calibrate the compass,

1. Open an app that uses the compass.
2. Move the Archer 4 around in the air so that it is oriented in different directions and angles. An effective method is to move the handheld back and forth making a sideways figure eight for approximately 10 seconds.



2.12 Bluetooth Wireless Communication

The Archer 4 has built-in Bluetooth wireless technology. It has a tested line of sight range of 650 feet (200 meters), but actual range varies depending on the output of both paired devices. If you test your Archer 4 with your Bluetooth devices, you may find the actual range extends far beyond the tested range.

To pair the Archer 4 and another device using Bluetooth technology,

1. Turn on both devices.
2. Swipe down from the top of the Archer 4 screen.
3. Long tap **Bluetooth**.
4. From Connected Devices, tap
 - **Pair new** to pair a device for the first time.
 - **See all** for previously paired devices.
5. From Pair new device, select the device you want to pair.
6. Tap **Pair** when asked.

The newly paired device will show on the Connected devices screen.

To disconnect a paired devices,

1. Swipe down from the top of the Archer 4 screen.
2. Long tap **Bluetooth**.
3. From Connected Devices, tap  next to the name of the device to disconnect.
4. From Device details, tap **Disconnect**.

Additional device settings can be found and adjusted by following steps 1–3.

Bluetooth can also be accessed from Settings > Connected Devices > Bluetooth, where you can access additional information.

2.13 Wi-Fi Wireless Networking

The Archer 4 has a built-in Wi-Fi wireless networking to connect to 2.4, 5, or 6 GHz Wi-Fi networks.

To connect to Wi-Fi, the handheld must be in range of a Wi-Fi access point to make a connection.

To connect the Archer 4 to a Wi-Fi network,

1. Swipe down from the top of the screen.
2. Tap Internet.
3. Check that the Wi-Fi toggle is enabled.
4. Tap the name of the Wi-Fi network from the list of available networks.
 - Enter the password for the network if requested.

The Archer 4 remembers the Wi-Fi network connections you create. When Wi-Fi is turned on, the Archer 4

automatically scans the area for available Wi-Fi networks.

Wi-Fi can also be accessed from Settings > Network & internet > Internet, where you can access additional information.

- Tap the network the Archer 4 is currently connected to view additional information like modify network.

2.14 Cellular Networking

The Archer 4 has a built-in cellular networking to connect to 4G LTE and 5G cellular networks (WWAN). The handheld simultaneously accommodates two nano SIM cards, allowing you to quickly switch networks.

To connect to a cellular network,

1. Install the nano SIM card provided by your cellular provider. See [1.2.2 Install/Remove the SIM/SD Card\(s\)](#) on page 5.
2. Access the settings for the cellular networking from Settings > Network & internet > SIMs > name of your cellular network.

If your cellular carrier requires specific APN settings, you can access them from Settings > Network & internet > SIMs > name of your cellular network > Access Point Names.

2.15 Near Field Communication (NFC)

The Archer 4 has a built-in NFC capability. You can enable/disable the NFC from Settings > Connected Devices > Connection Preferences > NFC.



 **CAUTION:** The battery door latches must be in the locked position for the NFC to work.

2.16 GNSS Location

Although the Archer 4 has a built-in dual-frequency (L1/L5) GNSS receiver, Android Location Services is used by default. Various apps, including the camera, can use position information provided by the GNSS receiver.

To enable the GNSS receiver,

1. From Settings > Location, select **Use Location**.

As needed, allow specific apps to have access to the position data.

Position data, whether provided by Android Location Services or the built in dual-frequency GNSS receiver works with the handheld positioned in portrait or landscape view. The accuracy will be slightly better when the Archer 4 is held in portrait view.

2.16.1 GNSS Accuracy

The built-in GNSS receiver provides 2–5 meter accuracy. Putting your hand or another object over the antenna area reduces its accuracy. The more items between the antenna and the satellites, the lower the accuracy becomes.

A sub-meter GPS/GNSS antenna expansion is available. See [3.2 Sub-meter GPS/GNSS](#) on page 26.

2.17 Camera

The Archer 4 has two built-in cameras.

- Front camera: 16 MP
- Rear: 48 MP

To launch the camera, do one of the following:

- Tap the camera icon.
- Press the power key twice.

2.17.1 Camera and Video Settings

By default, the camera is in photo mode when you open the app.

To switch to video,

1. Swipe up from the camera icon.
2. Tap **video**.

To switch from video to camera, repeat the steps choosing camera in step 2.

To change settings,

3. Tap the  icon.
4. Change camera settings as desired.

2.17.2 GNSS Metadata

The Archer 4 can geotag images with location metadata.

To enable geotagging,

1. Open the Camera app.
2. Tap the  icon.
3. Select Location Tagging.
4. Respond with your desired options when asked, whether to allow the Camera to access device's location.

After enabling geotagging, you can manage it (turn it off and on) by going to Settings > Apps > Camera > Permissions or deselecting Location Tagging in the camera app settings.

2.18 Fingerprint Scanner

The Archer 4 has a built-in fingerprint scanner on the side of the device, above P2 key. You will be prompted to set it up when you first set up your handheld.

Add or delete a fingerprint, from Settings > Security & privacy > Device unlock > Fingerprint.

When adding a fingerprint follow the prompts.

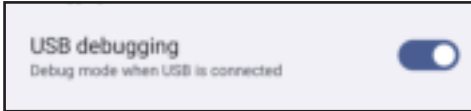
2.19 Share Files

As with other Android devices, file sharing with the Archer 4 is fairly straight forward.

2.19.1 USB-C Cable to PC

Share files directly with a PC using a USB-C cable. Once the Archer 4 is connected to the PC with the cable,

1. From Settings > About phone, tap **Build Number** seven times . (This enables developer mode on the handheld.)
2. From Settings > System > Developer Options, enable **USB debugging**.



3. From Settings > Connected devices > USB, tap **File Transfer**.

2.19.2 USB-C Storage Device

To share files using a USB-C storage device,

1. Connect the USB-C storage device to your Archer 4 using the USB-C port.
1. From Settings > About phone, tap **Build Number** seven times . (This enables developer mode on the handheld.)
2. From Settings > Connected devices > USB, tap **File Transfer**.

Other options for file sharing are Bluetooth, cloud services, app syncing, and email.

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CHAPTER 3

3. Optional Expansions

This chapter discusses the optional expansions that can be added to the Archer 4. Only one expansion can be added at a time. Both the barcode scanner and GNSS expansions are attached with two screw M2-13 wafer torx black oxide screws.

3.1 1D/2D Barcode Scanner

A 1D/2D barcode scanner can be added to any Archer 4 to easily import barcode data into apps running on the handheld.



To install the barcode scanner expansion,

1. Remove the hand strap and upper mounting loop (if applicable).
2. Remove the silicone plugs.



3. Position the expansion module.

4. Attach the expansion with the screws provided.



5. Route the hand strap through the hand strap mounting loop at the bottom of the barcode scanner expansion, if desired.



To use the barcode scanner,

1. Open the Barcode Connector app.
2. Find a barcode to scan (samples below):



3. Aim the scanner at the barcode along the red beam.
4. Press SCAN on the screen.
5. When the scanner decodes the barcode, the data is placed on the Barcode Connector screen.

Barcode Connector must be running in the background when you are using the scanner with other apps.

You can use either of the programmable keys (P1 or P2) as a scan trigger by programming them to do so. Follow

the instructions in [2.5 Programmable Keys](#) on page 12 assigning the scan function to your preferred key.

3.2 Sub-meter GPS/GNSS

A sub-meter GPS/GNSS antenna expansion can be added to any Archer 4 to increase the accuracy of GPS/GNSS position data.



3.2.1 Install GPS/GNSS Antenna Expansion

To install the sub-meter GPS/GNSS expansion,

1. Remove the hand strap and upper mounting loop (if applicable).
2. Remove the silicone plugs.



3. Attach the expansion with the screws provided.



3.2.2 Set Up Archer 4 to use GPS/GNSS Antenna

To use the sub-meter GNSS antenna,

1. Select U-Blox USB GPS from Settings > Location.

Additional settings are applied through the Archer Connect app. To use the sub-meter GNSS Antenna with RTK corrections, see the Archer Connect User Manual, 6.4 NTRIP/RTK Configuration.

3.2.3 Install the Hand Strap with GNSS Antenna

To install the hand strap with the sub-meter GNSS antenna,

1. Position the hand strap with the Velcro® facing down. Thread the hand strap through the bottom mounting loop.
2. Thread the Velcro through the mounting loop on the base of the sub-meter GNSS antenna.

3. Fold the Velcro back over the upper mounting loop and affix to itself.



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CHAPTER 4

4. Storage, Maintenance, and Recycling

Follow the instructions in this chapter to properly store, maintain, and recycle the Archer 4.

4.1 Storing the Archer 4 for More than Two Weeks

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

1. Charge the battery pack to 30–50%.
2. Close all running programs.
3. Power off the handheld by holding the power button until the Power menu appears and selecting Power Off.

 **CAUTION:** Power-off the Archer 4 before removing the battery. Although the handheld has an internal battery to provide a limited amount of power, power off to ensure that data is saved.

4. Remove the battery pack.
5. Place the battery pack in a dry location.

4.2 Cleaning the Archer 4

Make sure the battery door is securely installed.

4.2.1 Touchscreen

1. Rinse the touchscreen in a slow stream of running water to loosen and rinse off any mud, grit, or other abrasive.
2. Apply warm water or a mild cleaning solution to a microfiber cloth and gently wipe off the touchscreen.
3. Rinse with water and dry with a microfiber cloth.

 **CAUTION:** Do not use abrasive pads, soft bristle brushes, or harsh cleaning solutions on the touchscreen.

4.2.2 Case, Bumpers, and Connector Module

Use warm water, a mild soap, and a soft bristle brush to clean the case, bumpers, and connector module.

 **CAUTION:** Do not direct a high-pressure stream of water at the handheld 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 handheld, 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.

4.3 Recycling the Archer 4 and Batteries

When the Archer 4 reaches the end of its life, it 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 waste electrical and electronic equipment. If you cannot find a location, contact Juniper Systems for information about disposal.

The Li-Ion battery packs for your Archer 4 are recyclable. Avoid placing them in the trash or municipal waste system. To find the nearest battery recycling center in the USA, visit the Rechargeable Battery Recycling Corporation, www.call2recycle.org.

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CHAPTER 5

5. Warranty and Repair Information

5.1 Limited Product Warranty

5.1.1 2-Year Warranty

Juniper Systems, Inc. ("Juniper") warrants that the Archer 4 shall be free from defects in materials and workmanship, under normal intended use, for a period of 24 months from date of purchase, excepting that this warranty shall not apply to battery packs, media containing software, accessories.

5.1.2 Ninety Day Warranty

Juniper warrants the following 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
- Media containing the handheld and desktop PC programs
- User documentation
- Accessories.

5.1.3 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 Juniper or under direct supervision of Juniper),
- vi. the defect or malfunction results from misuse or accident,

- vii. the IMEI label inside the battery compartment of 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 touchscreen and hands strap (if applicable).

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

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

5.1.4 Remedy

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

or through the end of the original warranty period, whichever is longer.

5.1.5 Limitation of Liability

To the fullest extent allowed by law, obligation of Juniper shall be limited to the repair or replacement of the product. Juniper shall in no event be liable for special, incidental, 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 Juniper shall, in connection with a warranted product, be limited in maximum amount to the original purchase price.

5.1.6 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.

5.1.7 Warranty Service

In order to obtain a warranty product repair, replacement, or other servicing, contact our customer service department or fill out the Repair Order Form within the applicable warranty period. The customer must prepay all shipping costs for delivery of the product to the repair center. Please visit our Repair Policies web page for further details.

5.1.8 Warranty Repairs

Warranty information for the Archer 4 is located on our website at <https://junipersys.com/support/archer4/my-product> then Warranty. You can check warranty status, view warranty terms and conditions, etc.

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. Wait to request a repair until you are ready to

send the product.

Services and Materials Provided Under Warranty

- Analysis of problem by service technical personnel
- Labor and materials required to fix defective parts
- Functional analysis performed after repair
- Shipping costs to return unit to the customer.

Juniper strives to provide continued full repair services for our products for up to five years from the final production date of each 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.

5.2 Complete Care Service Plan

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

- Service plan coverage up to five years from the original product ship date.
- Up to a 50% discount on all charged repairs.
- Expedited repairs and return shipping at no additional charge.
- Replacement of worn and/or damaged parts at no additional charge.
- Complete comprehensive coverage to protect your investment even when accidents occur.
- Loaner product option when an expedited repair is not enough.
- Priority support through a personal account specialist.

For more information about our Complete Care service

plans, go to our website at <https://junipersys.com/support/my-product> > Warranty/Complete Care Options or Warranty/Complete Care Terms and Conditions.

5.3 Repairs, Upgrades, and Evaluations

 **CAUTION:** Do not attempt to repair the Archer 4 yourself. This action voids the warranty.

Information about repairs, upgrades, and evaluations is located on our website at <https://junipersys.com/support/my-product> > **Repairs**. You can locate a repair center, submit a repair order, check repair status, and view repair policies.

The Archer 4 is serviceable and can be repaired if damage occurs. The following components can be replaced:

- AR4 mainboard assembly
- AR4 I/O port and board
- AR4 SD and SIM tray assembly
- AR4 Front camera
- AR4 Rear camera
- AR4 Rear speaker assembly
- AR4 Internal 300 mAh battery
- AR4 Battery Door, 8300 mAh
- AR4 Battery Door, 4500 mAh
- AR4 Case back assembly (enclosure + bumpers + buttons + fingerprint sensor)
- AR4 Display Assembly

The cost for repairs depends on whether damage was covered by a warranty plan.

Before returning a handheld, submit a repair order from our website and wait for confirmation or contact a repair center directly. Be prepared to provide the following information:

- The product serial number. Found at Settings > About phone, tap **Model**.
- Name and shipping address of company/university/

agency.

- Best contact method (phone, fax, 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).

5.4 Extended Warranties

The Archer 4 can be warranted up to 5 years (including the standard warranty period) through the purchase of an extended warranty.

Extended warranties apply only to the Archer 4, not battery packs, media containing the Archer 4 programs, desktop computer programs, user documentation, and accessories. Parts that are excessively worn are not covered under all warranty plans. These may include, but are not limited to, hand straps, and touchscreens.

5.5 System Information for your Archer 4

When you contact a repair center, you need some unique system ID information for your Archer 4 (serial number, model number, etc.). It can be obtained from Settings > About phone, tap **phone** to see the serial number. Information about your IP address, IMEI numbers, legal information, network, and radio can be viewed.

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CHAPTER 6

6. Product Warnings

Follow the warnings in this chapter to use the Archer 4 and accessories safely.

6.1 Battery Warnings



CAUTION: 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, open, crush, bend, 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.



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

6.2 USB Charger and Cable Warnings



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

- Plug the USB charger and cable into an electrical outlet that is easily accessible at all times.
- Do not place anything on the USB charger and cable 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 USB charger and cable from the electrical outlet, pull on the plug, not the cord.
- To optimize battery charging, use only USB charger and cables with an output rating of 5 V DC and 3 A, although any charger with an output of up to 18 W will work. The USB charger and cable must be certified or listed by a nationally recognized testing laboratory. The USB charger and cable provided with the Archer 4 meets these criteria.

6.3 Certifications and Standards

6.3.1 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 of this equipment is subject to the following two conditions:

- The device may not cause harmful interference.
- 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 Handheld 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. USB charger and cables approved for this product employ special provisions to avoid radio interference and should not be altered or substituted.

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

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Prohibited for control of or communication with unmanned aircraft systems, including drones. This device is prohibited for control of or communications with unmanned aircraft systems, including drones.

Radio Frequency Exposure Information (SAR)

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest SAR value for the model device as reported to the FCC when tested for use at the ear is 1.12 W/kg and when worn on the body, as described in this user guide, is 0.74 W/kg (Body-worn measurements differ among device models, depending upon available accessories and FCC requirements.)

While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: VSFAR4.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and be positioned a

minimum of 1.0 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the device at the ear, position the handset a minimum of 1.0 cm from your body when the device is switched on.

6.3.2 Canada

This device complies with Industry Canada license-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.

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

This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios.

Radiation Exposure Statement

Portable Device (< 20 cm from body 0.76 W/kg)

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

This device has been tested for compliance with IC SAR values at a typical operating near the body. To ensure that RF exposure levels below the levels tested, use accessories with this equipment to maintain a minimum separation distance of 1.0 cm between the body of the user and the

device. These accessories should not contain metallic components. It is possible that the accessories used close to the body that do not meet these requirements are not consistent with the SAR limits and it is advisable to avoid using them.

WLAN 5GHZ Device

Cautions

1. the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
2. the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
3. the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.
4. the worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated. <for 5G B2 with DFS devices only>
5. Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Telecomm Device

This product meets the applicable Industry Canada technical specifications. The Ringer Equivalence Number (REN) is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination of an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices not exceed five.

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.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Cet appareil est conforme à la norme RSS-310 d'Industrie Canada. L'opération est soumise à la condition que cet appareil ne provoque aucune interférence nuisible.

Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faites des radios intégrées qui ont été testées.

La fonction de sélection de l'indicatif du pays est désactivée pour les produits commercialisés aux États-Unis et au Canada.

Déclaration d'exposition aux radiations

Appareil portable (< 20 cm du corps 0,76 W/kg)

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les États-Unis et le Canada établies pour un environnement non contrôlé.

Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.

Ce dispositif a été testé pour la conformité avec les valeurs SAR à un fonctionnement typique près du corps. Pour assurer que les niveaux d'exposition aux radiofréquences en deçà des niveaux testés, utiliser des accessoires avec cet équipement pour maintenir une distance de séparation minimale de 1.0 cm entre le corps de l'utilisateur et l'appareil. Ces accessoires ne doivent pas contenir des composants métalliques. Il est possible que les accessoires

utilisés près du corps qui ne répondent pas à ces exigences ne sont pas compatibles avec les limites SAR et il est conseillé d'éviter de les utiliser.

Dispositif WLAN 5GHZ

Précautions:

1. les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
2. le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.;
3. le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.
4. les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, et énoncée à la section 6.2.2 3), doivent être clairement indiqués. <for 5G B2 with DFS devices only>
5. De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Dispositif de télécommunication

Le présent matériel est conforme aux spécifications techniques applicables d'Industrie Canada. L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison

quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas cinq.

6.3.3 European Union

CE Marking



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

Declaration of Conformity

The Declaration of Conformity for CE Marking is available at: <http://www.junipersys.com/doc>.

Radio Frequency Exposure

A minimum separation distance of 0.5 cm must be maintained between the user's body and the device, including the antenna during body-worn operation to comply with the RF exposure requirements in Europe.

The SAR limit for mobile devices is 2.0 W/kg and the highest SAR value for this device when tested for use at the head was 0.734 W/kg and when tested for use at the body was 1.579 W/kg.

Frequency bands	Maximum output power
LTE Band 1	23.19 dBm
LTE Band 3	22.65 dBm
LTE Band 7	23.20 dBm
LTE Band 8	23.33 dBm
LTE Band 20	22.52 dBm
LTE Band 28	22.74 dBm
LTE Band 38	23.21 dBm
LTE Band 40	23.21 dBm
NR N1	23.64 dBm
NR N28	23.43 dBm
NR N41	25.39 dBm
NR N77	27.28 dBm
NR N78	27.27 dBm
Bluetooth 2402~2480MHz	8.58 dBm
WIFI 2.4G Band	18.64 dBm
WIFI 5G Band	17.19 dBm
WIFI 6 GHz RLAN	10.80dBm
NFC 13.56 Mhz	-21.01 dBuA/m@10m

5G Wi-Fi Restriction

Operations in the 5.15-5.35GHz band are restricted to indoor usage only.

	AT	BE	BG	CH	CY	CZ	DE	DK	EE	EL	ES	FI
	FR	HR	HU	IE	IS	IT	LI	LT	LU	LV	MT	NL
	NO	PL	PT	RO	RS	SE	SI	SK	TR	UK		

LVD Logo



To prevent possible hearing damage, do not listen at high volume levels for long periods.

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CHAPTER 7

7. Archer 4 Rugged Handheld Specifications

FEATURE	SPECIFICATION
Operating System	■ Android™ 14 GMS
GMS (Google Mobile Services)	■ EDLA Certified
Processor	■ Qualcomm 4490 octa-core up to 2.4 GHz
Memory (RAM)	■ 8 GB
Internal Storage (ROM)	■ 128 GB
SD Card Storage	■ Up to 512 GB ■ Micro SD slot, user accessible
Display	■ 500 nits typical (450 minimum) ■ Screen size (diagonal): 6.26" (159 mm) ■ Screen resolution: 2280 x 1080 FHD+ ■ Capacitive multi-touch interface for wet conditions ■ Chemically-strengthened Gorilla® Glass 5

FEATURE	SPECIFICATION
Connectivity	■ Cellular 5G with 4G LTE fallback, dual nano SIM slots ■ Cellular: LTE-FDD: (B1/B2/ B3/B4/B5/ B7/B8/B12/B13/B14/B20/B25/B26/ B28a/B66/B71), LTE-TDD: (B38/B40/ B41), 5G: (N1, N2, N5, N41,N66, N71, N77, N78) ■ Wi-Fi: 6E 802.11 2.4/5 GHZ a/b/g/n/ac, 802.11 ax ■ Bluetooth® 5.2 ■ Dual-band GPS, GLONASS, BDS, Galileo, SBAS, QZSS ■ NFC ■ OTG ■ USB Type-C (5Gbps, 5V power delivery):
Ruggedness	■ Ingress protection: IP68 waterproof & dust proof ■ Operating Temperature: -4 F to 140 F (-20 C to 60 C) ■ Meets MIL-STD-810H test procedures: with the following methods: ■ 500.6 Low Pressure ■ 501.7 High Temperature ■ 502.7 Low Temperature ■ 503.7 Temperature Shock ■ 506.6 Rain, ■ 507.6 Humidity, ■ 510.7 Sand and Dust, ■ 514.8 Vibration ■ 516.8 Shock

FEATURE	SPECIFICATION
Physical Features	■ Weight: .72-.87 lbs (325-395 g) depending on battery and expansion configuration ■ Dimensions ■ 4500 mAh battery: 174 x 85 x 15 mm ■ (option) 8300 mAh battery: 174 x 85 x 22 mm ■ 2 user programmable buttons
Camera	■ Front: 16 MP ■ Rear: 48 MP with LED illumination
Expansions	■ Optional 1D/2D barcode add-on ■ Sub-meter GNSS receiver (RTK capable)
Batteries	■ Removable Li-ion battery ■ Rechargeable Li-ion battery: ■ 4500 mAh run time 8 hours or more ■ (option) 8300 mAh run time 18 hours or more ■ Internal 300 mAh internal battery allows for hot swapping
Certifications and Standards	■ IC/FCC/CE ■ UKCA ■ ROHS, REACH, REACH Restriction Article, EU POP, WEEE ■ California Prop 65 ■ TSCA ■ Bluetooth SIG ■ RCM ■ Japan Radio (TELEC,JATE) ■ Brazil ANATEL ■ SCIP ■ Canada Prohibition ■ ERP,CEC,DOE ■ PTCRB ■ Global Certification Forum (GCF) ■ AT&T BYOD authorized

FEATURE	SPECIFICATION
Audio	■ Speaker ■ Microphone
GNSS	■ 2 to 5 meter typical accuracy * ■ Enhanced performance under heavy canopy ■ File format NMEA-0183 version 4.11 output, default strings: GGA, GSA, GLL, GSV, RMC, VTG, ZDA, TXT ■ 72 GNSS tracking channels
LED Activity Indicators	■ Solid Red—The battery charge is less than 20%. Charger is connected. ■ Blinking Red—The battery charge is less than 20%. No charger is connected. The screen is on. ■ Solid Yellow—The battery charge is between 21–90%. The charger is connected. ■ Solid Green—The battery charge is above 90%. The charger is connected.
Temperature Specifications	■ Operating Temperature: -4° to 140° F (-20° to 60° C). <i>Note: Bluetooth® wireless technology is rated to -4° to 122° F (-20° to 50° C).</i> ■ Storage Temperature: -22° to 140° F (-30° to 60° C) ■ Optional barcode scanner: -4° to 122° F (-20° to 50° C)
Warranties	■ 24 months for Archer 4 ■ 90 days for accessories ■ Extended service and maintenance plans

*Accuracy is subject to observation conditions, multipath environment, number of satellites in view, satellite geometry, and ionospheric activity.

FEATURE	SPECIFICATION
Standard Accessories	■ Removable Li-ion battery ■ Rugged hand strap and attachment loop ■ USB charger and cable with international plug kit ■ Input: 100-240VAC, 50/60Hz, 0.5A ■ Output: 5.0V 3.0Z, 9.0V 2.0A, and 12.0V 1.5A ■ T-6 screw driver ■ Quick Start Guide ■ User Manual: Available in English, French, German, Spanish, and Brazilian Portuguese (available at Junipersys.com/support) ■ Two-year warranty on Archer 4
Optional Accessories	■ Replacement 4500 or 8300 mAh batteries ■ Replacement USB charger and cables ■ Replacement hand strap ■ Replacement hand strap loop ■ Anti-glare or ultra clear screen protector ■ External battery charger ■ Allegro wireless keyboard (coming soon) ■ Geode Grip cradle (coming soon) <i>See your sales associate for more details on optional accessories.</i>

Note: Specifications are subject to change without notice.

7.1 Expansion Specifications

FEATURE	SPECIFICATION
Barcode Pod	■ Sensor Resolution: 1280 X 960 ■ Field of View: Horizontal 44.5°, vertical 33.5° ■ Reading Angles: Skew & pitch $\pm 60^\circ$, roll 360° ■ Read Range: 1" to 20" depending on code type, size, and density ■ Symbolologies: ■ 1D—Code 11; Code 39; Code 93; Code 128; EAN-8; EAN-13 & add-ons: 2-digit, 5-digit; GS1 DataBar & variations: expanded, expanded stacked, limited, omnidirectional, stacked, stacked omnidirectional, truncated; GS1-128; ITF (Interleaved 2 of 5); Matrix 2 of 5; MSI; UPC-A & add-ons: 2-digit, 5-digit; UPC-E & add-ons: 2-digit, 5-digit ■ 2D—Australian Post, US Postnet, Aztec, Data Matrix, Maxicode, PDF417, QR Code & variations: GS1 QR, MicroQR ■ Trigger Keys: Programmable ■ Aiming Green Dot Pattern: Visible with low light illumination ■ Barcode Connector™ Utility: Wedge and configuration ■ Power: 1.49W active, 0.54W standby, 8mW sleep; by default device returns to sleep after 1 second of inactivity

FEATURE	SPECIFICATION
GNSS Pod	■ Horizontal Accuracy: ■ SBAS 1.0m (CEP) ■ RTK 0.01m + 1ppm (CEP) ■ Vertical Accuracy: ■ RTK 0.01m + 1ppm (Median) ■ Frequencies: ■ GPS: L1C/A, L1C ■ GLONASS: G1 ■ Galileo: E1 ■ BDS: B1I, B1C ■ SBAS: L1 ■ QZSS: L1 ■ Trigger Keys: Programmable ■ Power: ~600 mW active, ~0.2 mW standby

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CHAPTER 8

Index

A

Android 2, 11, 21, 51

apps 11–13

install 11

preloaded 11

B

backlight 14

barcode scanner 2, 3

battery

battery life 14

charging 14

hot swap 14

hours of use 14

indicator lights 16

installation 4

recycling 31

specifications 53

storage 30

temperature

charging 14

warnings 40

warranty 33, 38

Bluetooth 17, 52

Pairing 17

C

camera 12, 20, 21

GNSS metadata 20

specifications 20

care and maintenance 30

cleaning 30–31

storage 30

compass 17

calibration 17

D

Declaration of Conformity 48

display 12, 51

disable or enable 13

G

Geotag; *See* camera: GNSS metadata

L

LED indicators 16

M

microphone 3, 54

O

operating system 11, 51

P

power 14

battery charging 14

battery life 14

power off 9

power on 8

power supply 7, 52

restart 9

sleep 12, 56

programmable keys 12

screenshot 12

touchscreen, enable/disable 12

volume 12

R

recycle 31

repair 34, 35, 36, 37

system information 38

S

screenshot 12

SD cards 3

sensors

accelerometer 17

compass 17

gyroscope 17

service plans 37

sleep; *See* power: sleep

speaker 2, 54

storing, long term 15, 30

system information 38

T

temperature specifications 54

touchscreen 12, 13, 51

cleaning 30

U

USB 3, 22

W

Wi-Fi 2, 18