

**Honeywell**

# Dolphin™ CN80 Series

Mobile Computer  
powered by Android™



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**User Guide**

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# Customer Support

## Technical Assistance

To search our knowledge base for a solution or to log in to the Technical Support portal and report a problem, go to [www.hsmcontactsupport.com](http://www.hsmcontactsupport.com).

For our latest contact information, see [www.honeywellaidc.com/locations](http://www.honeywellaidc.com/locations).

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To obtain warranty or non-warranty service, return your product to Honeywell (postage paid) with a copy of the dated purchase record. To learn more, go to [www.honeywellaidc.com](http://www.honeywellaidc.com) and select **Service & Repair** at the bottom of the page.

For ongoing and future product quality improvement initiatives, the mobile computer comes equipped with an embedded device lifetime counter function. Honeywell may use the lifetime counter data for future statistical reliability analysis as well as ongoing quality, repair and service purposes.

### Dolphin CN80 Non-Incendive (NI) Versions Only (CN80-LON-xxxxx1F, CN80-L1N-xxxxx1F, CN80G-LON-xxxxx1F, and CN80G-L1N-xxxxx1F)



**Warning: Explosion Hazard - Substitution of components may impair suitability for Class I, II, III Division 2 locations.**



**Avertissement: Risque d'explosion - Le remplacement de composants risque de compromettre l'adaptation du produit aux sites de catégorie I, II, III division 2.**

## Limited Warranty

For warranty information, go to [www.honeywellaidc.com](http://www.honeywellaidc.com) and click **Get Resources > Product Warranty**.



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# ABOUT THE COMPUTER FEATURES

This chapter introduces the Dolphin CN80 Mobile Computer. Use this chapter to learn about the basic computer features, functions, and accessories.

## About the Dolphin CN80 Mobile Computer Series

Dolphin CN80 mobile computers, built on the Mobility Edge™ platform, deliver real-time connectivity, advanced data capture, and future-proof investment protection. A large touchscreen with the option to choose between a 40-key QWERTY keypad or 23-key numeric function keypad provides the flexibility to fit current and future application environments. All CN80 models are equipped for fast Wi-Fi connectivity with a WLAN 802.11 a/b/g/n/ac radio and Bluetooth (v5.0) technology that includes Bluetooth Low Energy (BLE) support.

CN80L1N models provide additional connectivity with a wireless WWAN radio for high speed data and quality voice support across all network technologies. CN80 WWAN models also include an integrated global positioning satellite (GPS) receiver that supports GPS protocols including, Simultaneous GNSS Receiver Support for GPS, GLONASS, Galileo and Beidou GPS.

CN80L0N models are available with either a N6603ER (1D/2D) high performance imager or an EX20 Near/Far (1D/2D), high performance 2D imager for long range scanning applications up to 15.2 m (50 ft).

Honeywell offers heater-equipped cold storage CN80 versions to extend the use of the mobile computer in cold storage and freezer environments as well as Non-incendive (NI) CN80 versions for use in hazardous environments.

The CN80G ultra-rugged mobile computer is a no-compromise platform for logistics, warehouse, and field mobility solutions used by United States government agencies, government contractors, and businesses working with federal agencies.

**Note:** *Throughout this manual, all versions of the mobile computer are referred to as the CN80 unless information is specific to a particular model type.*

**Note:** *The Settings app varies by computer model and OS version. Your computer may not include all of the features shown throughout the manual.*

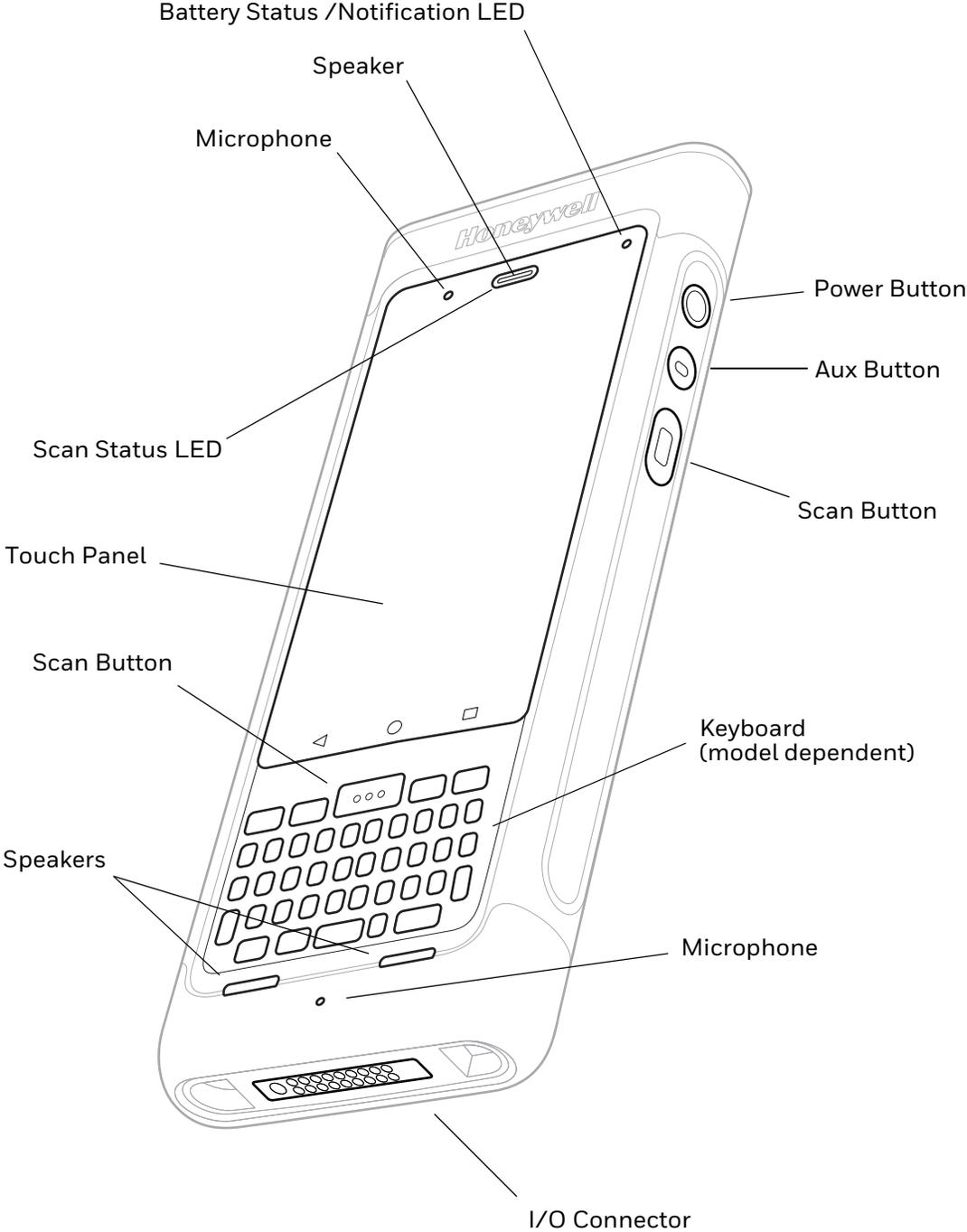
## Model Overview

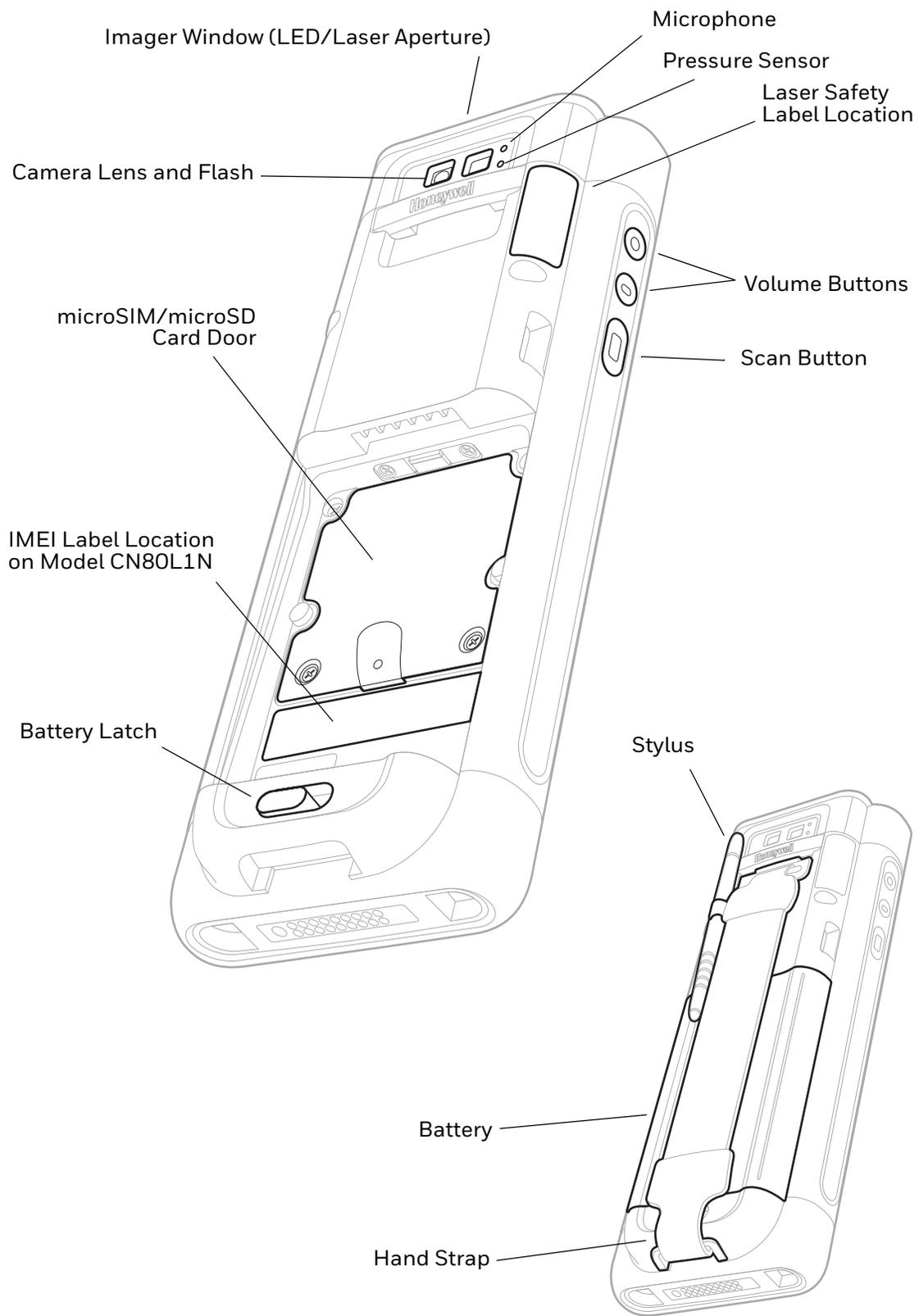
Available Features	Model CN80L0N	Model CN80L1N
Android Operating System	x	x
2.2 GHz Qualcomm Snapdragon™ 660 octacore processor	x	x
3 GB/4 GB DDR4 RAM, 32 GB flash memory	x	x
Large, high definition, bright color, outdoor-readable display with responsive multi-touch capacitive touch panel.	x	x
Integrated ambient light sensor, proximity sensor, accelerometer, gyroscope, magnetometer, and pressure sensors	x	x
Choice of physical keypad: <ul style="list-style-type: none"> <li>40-key QWERTY keypad or</li> <li>23-key numeric function keypad</li> </ul>	x	x
N6603ER (1D/2D) high performance Honeywell imager	x	x
EX20 Near/Far (1D/2D), high performance 2D Honeywell imager for long range scanning applications; 0.15 m to 15.2 m (6 in to 50 ft).	x	
WLAN IEEE 802.11a/b/g/n/ac radio; Wi-Fi certified	x	x
Bluetooth™ V5.0 and Bluetooth Low Energy (BLE) technology support	x	x
NFC technology for short-range wireless data exchange	x	x
Wireless WWAN radio for high speed data and quality voice support across all network technologies		x
Dual micro-SIM slots		x
Integrated GPS receiver; GPS Supported Protocols: Simultaneous GNSS Receiver Support for GPS, GLONASS, Galileo and Beidou		x
Mid-tier rugged specifications with IP67 sealing	x	x
Customer-accessible microSD™ slot for removable memory cards up to 512 GB (SDXC/SDHC/SDIO-compliant)	x	x
Value-added software components supporting specialized imaging and OCR functions	x	x
13-megapixel color camera, 4K video with image stabilization and advanced software features for enhanced exposure control	x	x

**Note:** To learn more, see [Specifications](#), beginning on page 97.

# Features of the CN80 Mobile Computer

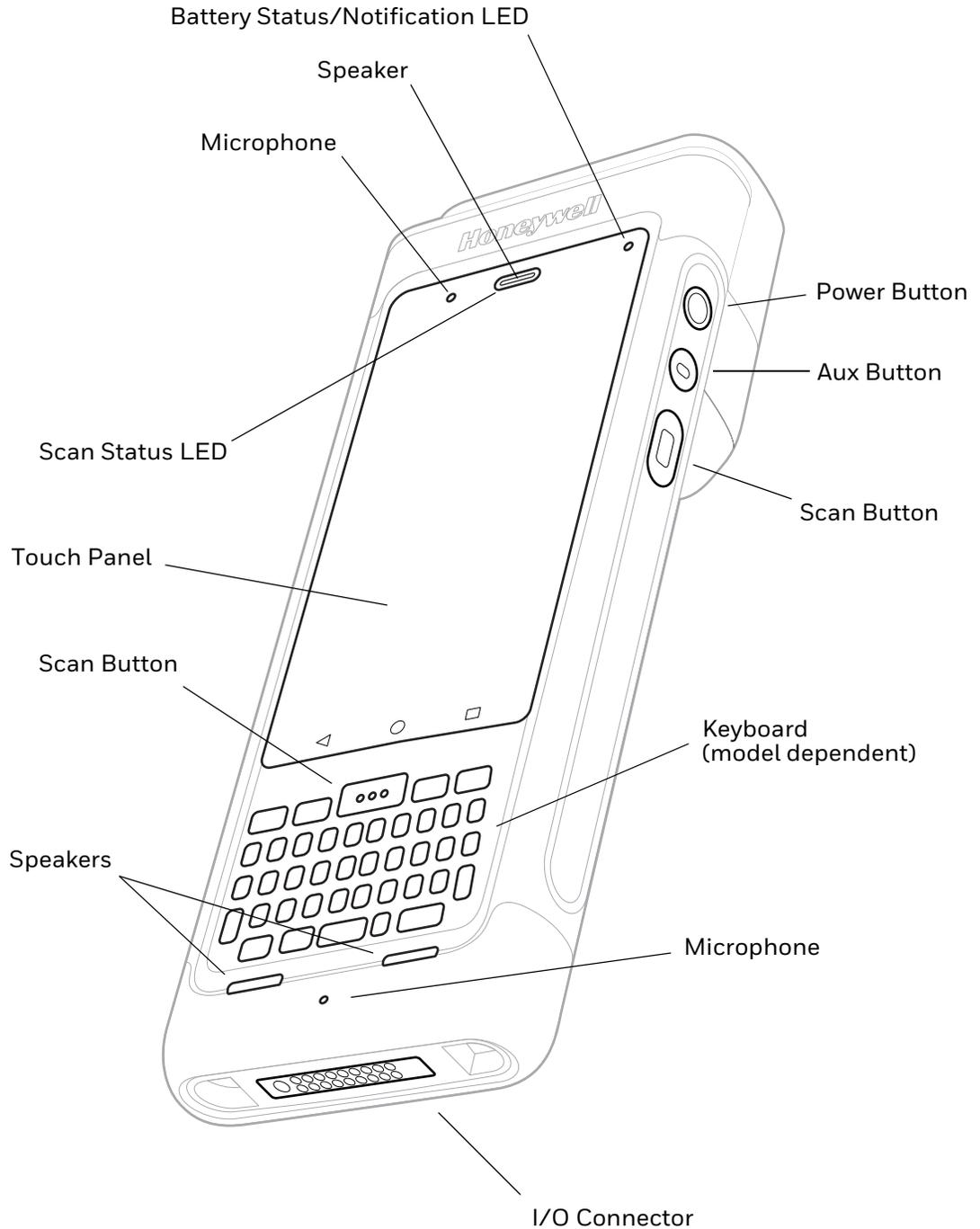
## CN80 Model with N6603ER Imager

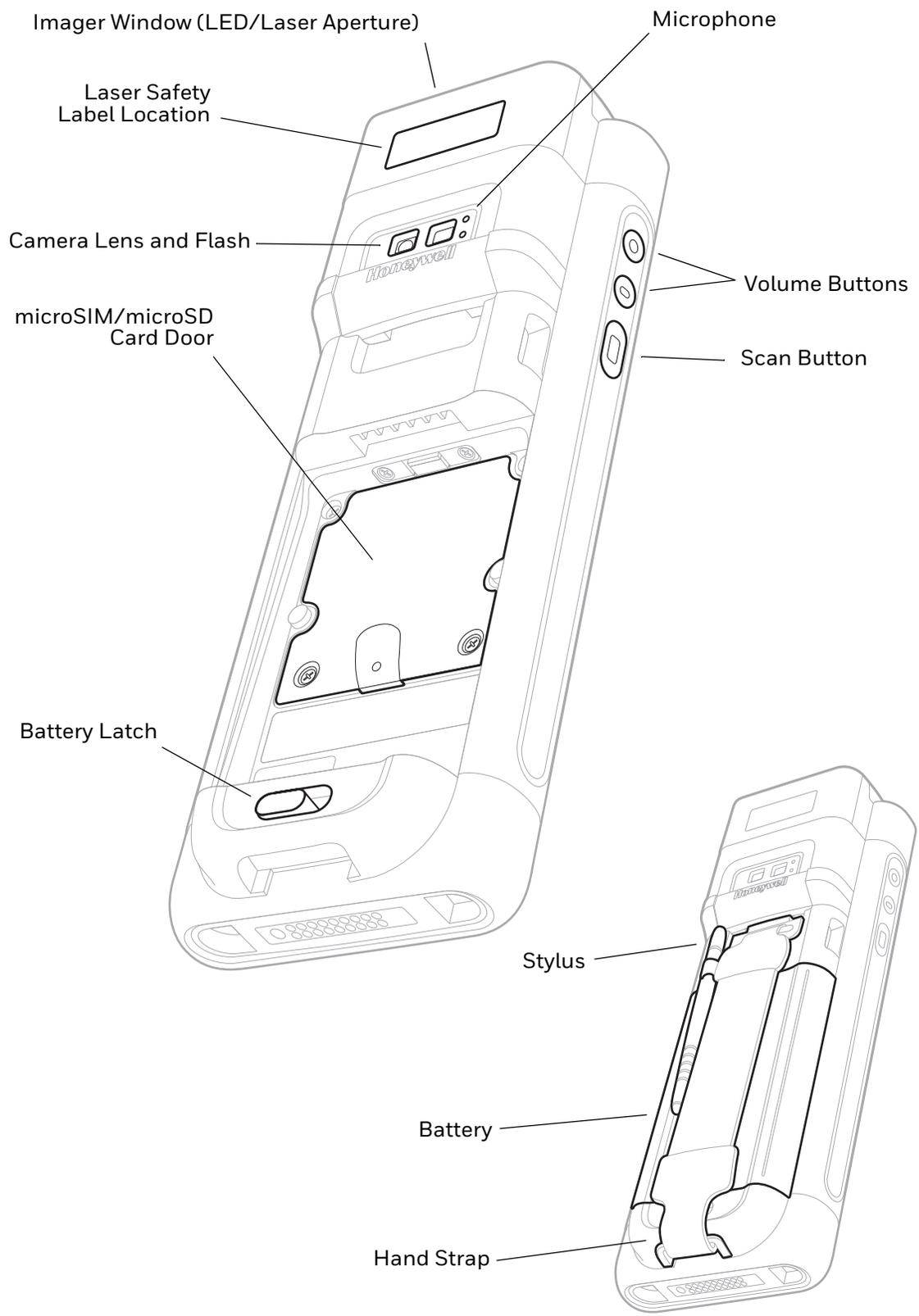




# CN80 Model with EX20 Near/Far Imager

**Note:** The EX20 Near/Far Imager is only available for CN80L0N models.





# About the Battery

The computer uses a rechargeable 3.85 V Li-ion battery as its main power source. The battery has a 22.3 watt hour capacity. Several factors determine the life of your battery, such as display brightness, display timeout, input device, extreme temperature, and usage. Honeywell recommends that you keep the battery charged at all times to prevent data loss.

Dolphin CN80 computers are designed for use with battery model CW-BAT manufactured for Honeywell International Inc. Contact your local sales representative for replacement batteries.

## Battery Part Numbers

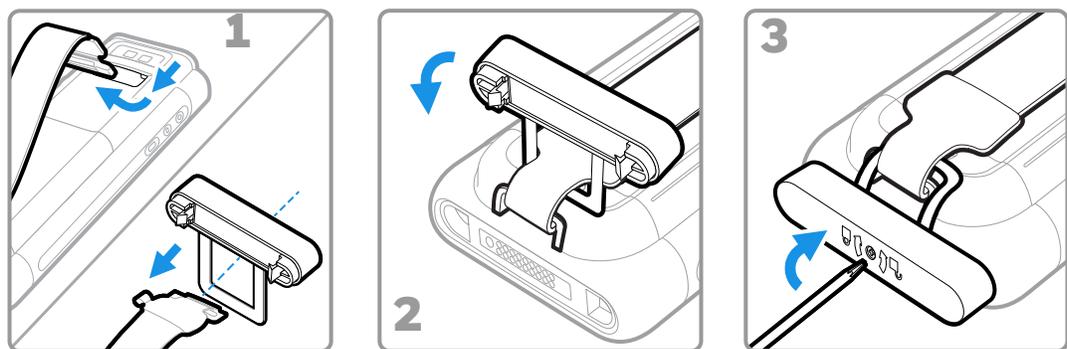
Model	Battery P/N
CN80-L0N-xxxxx1F	CX80-BAT-EXT-WRLS1
CN80-L1N-xxxxx1F	CX80-BAT-EXT-WRLS1
CN80G-L0N-xxxxx1F	CX80G-BAT-EXT-WRLS
CN80G-L1N-xxxxx1F	CX80G-BAT-EXT-WRLS

**Note:** CN80G model battery ships separately from the mobile computer.

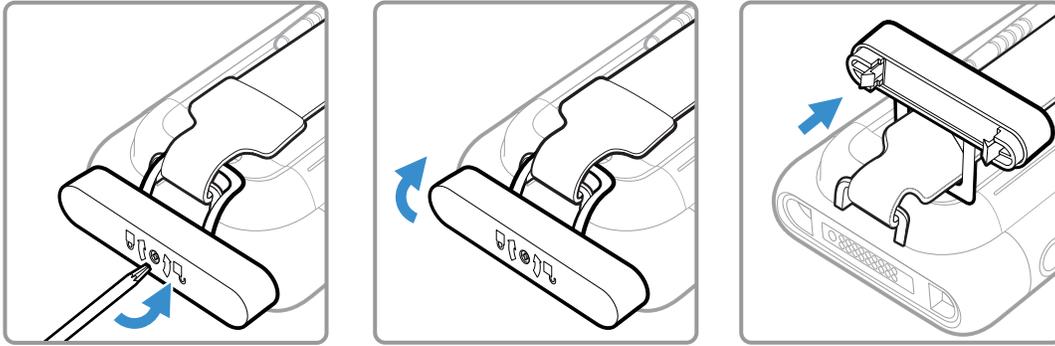
## About the optional Dust Cover

The dust cover can be used when additional I/O connector shielding is desired.

### Install the Dust Cover



## Unlock the Dust Cover



## Important Information



**Caution:** Read [Battery Recommendations and Safety Precautions](#) on page 14 and all cautionary markings on the battery, charging peripheral, and device using the battery before attempting to install, use, or charge the battery.

### About CN80 Non-Incendive Models

(CN80-L0N-xxxxx1F, CN80-L1N-xxxxx1F, CN80G-L0N-xxxxx1F, and CN80G-L1N-xxxxx1F)

**Warning: Explosion Hazard - Batteries must only be changed or charged in an area known to be non-hazardous. use ONLY Honeywell battery part number CX80-BAT-EXT-WRLS1 for CN80 NI Models or CX80G-BAT-EXT-WRLS for CN80G models.**



**Avertissement: Risqué d'explosion—Les batteries doivent uniquement être remplacées ou rechargées dans un endroit non dangereux. Utilisez UNIQUEMENT Honeywell batterie P/N CX80-BAT-EXT-WRLS1 pour les modèles CN80 NI ou P/N CX80G-BAT-EXT-WRLS pour les modèles CN80G.**

**Warning: Battery must be locked when using the CN80 NI in a hazardous environment.**



**Avertissement: La batterie doit être verrouillée lors de l'utilisation du NI CN80 dans un environnement dangereux.**



**Warning: Additional spare batteries must not be carried in hazardous areas.**



**Warning: The device must be protected from impacts with high-impact energy, permanent UV light emission, and high electrostatic discharge processes.**

## Charge the Battery Before Use

Dolphin CN80 computers ship with a partially charged battery. Fully charge the battery before using your computer for the first time.

**Note:** *CN80G model battery ships separately from the mobile computer.*

You can charge the battery with a Dolphin CX80 series charging accessory before or after you install the battery in the computer. A fully discharged battery charges in approximately **4 hours**.

**Note:** *Honeywell recommends using Honeywell accessories and power adapters. Using non-Honeywell accessories or power adapters may cause damage not covered by the warranty.*



**Warning: Ensure all components are dry prior to mating the computers and batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.**

To charge the battery before you install it in the computer:

- Insert the battery into the CX80 Quad Battery Charger or the battery well of a Home Base or Ethernet Home Base.

To charge the battery after installing it in the computer:

- Insert the computer into a CX80 Home Base, Ethernet Home Base, Charge Base, Net Base, Snap-on Adapter, or Vehicle Power Adapter.

**Note:** *Using the computer while charging the battery increases the time required to reach a full charge.*

## Replace the Battery

If your battery power is low, you need to either charge the battery in the computer, or replace it with a charged battery.

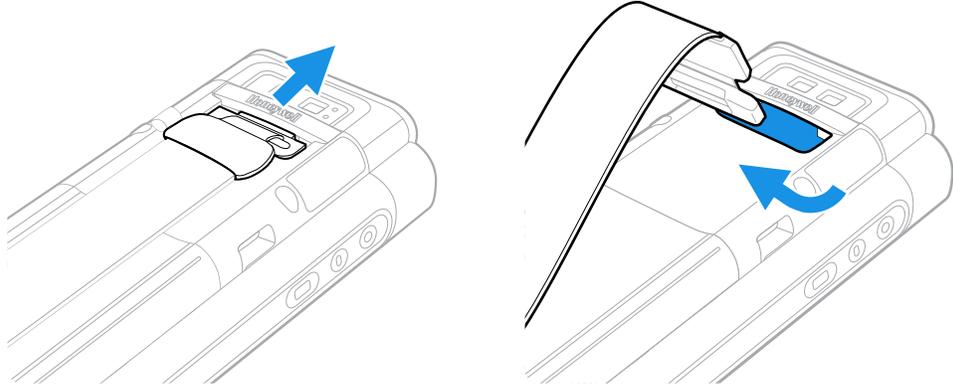


**Warning: If you have a CN80 NI/CN80G model certified for use in hazardous locations, read [About the optional Dust Cover](#), page 7.**

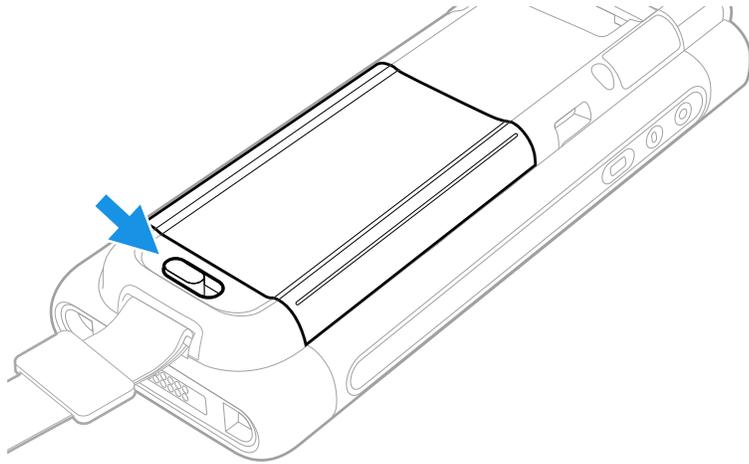
To replace the battery:

1. Save your files and close any open applications.
2. Press and hold the **Power** button until the options menu appears.
3. Tap **Battery swap**. Follow the on-screen instructions to place the unit in battery swap mode.

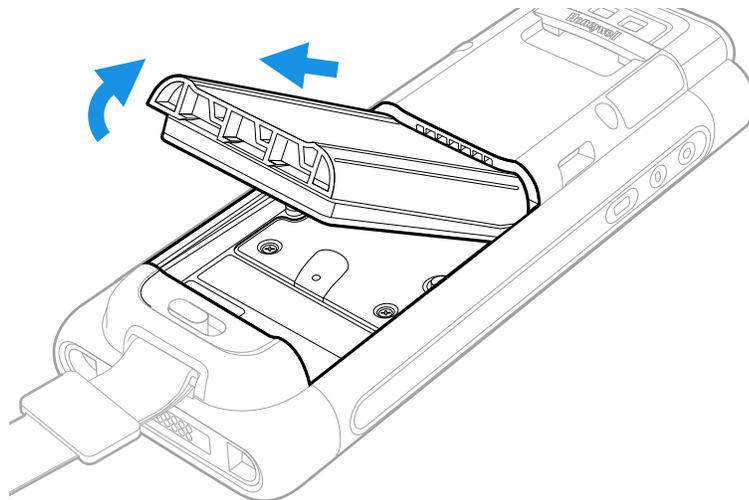
4. Release one end of the hand strap.



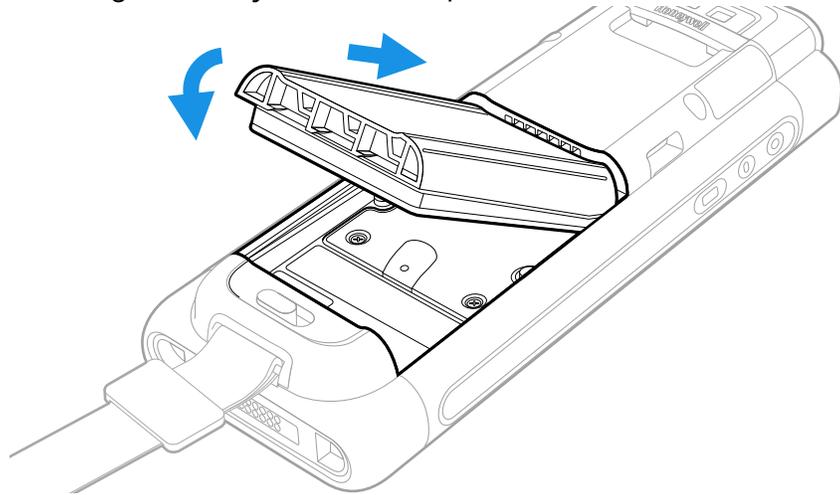
5. Slide the battery latch to the right.



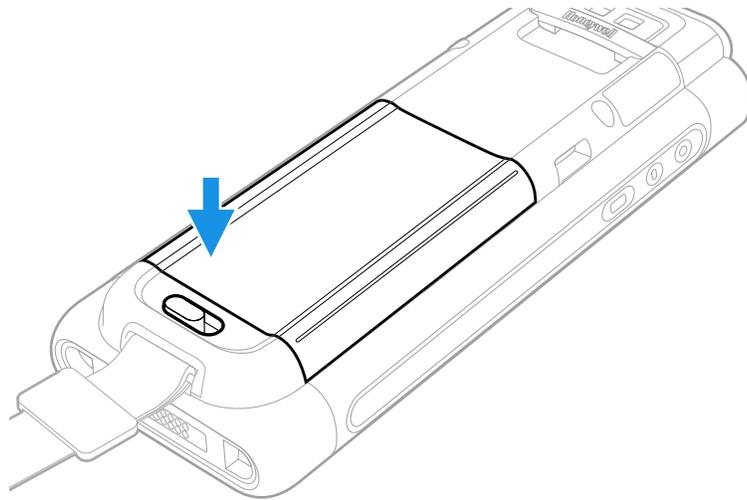
6. Lift up on the edge of the battery and remove it from the computer.



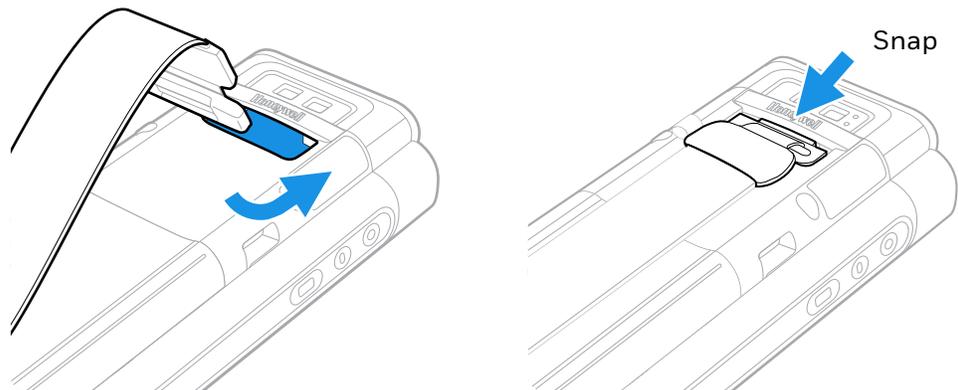
7. Insert the charged battery into the computer.



8. Press down on the edge of the battery to engage the lock.



9. Attach the hand strap.



10. Press the **Power** button.

# About the Battery Status

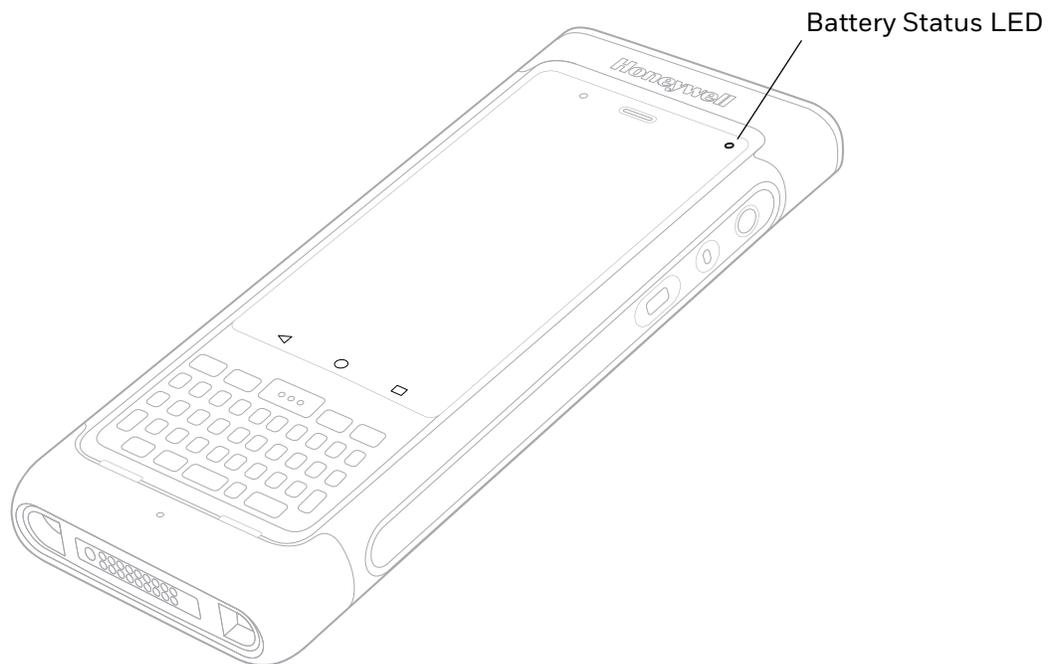
Use the battery icon in the Status bar at the top of the screen to see the charge level of your battery. If you want more detailed information on your battery, such as usage time, charge remaining on the battery, or battery health information,

open the **Settings** app  and tap either **Battery Honeywell Settings** or **Battery Optimizer**.

## Battery Status Icons

Icon	Status
	The battery charge is at 100%.
	The battery charge is at 50%.
	The battery charge is low. You need to charge or replace the battery soon.
	The battery is critically low. You need to replace the battery now or connect the computer to a charging accessory.
	The computer is connected to external power and the battery is charging.
	There is a battery error. Install another battery. If the problem persists, contact Honeywell Technical Support.

The Battery status LED appears in the upper right corner of the touch screen. The LED color and behavior (e.g., steady on, blinking, off) indicates the charging status of the battery. To view status descriptions and to learn how to modify the Battery LED behavior, see [About the Battery Status LED Setting](#) on page 13.



# About the Battery Status LED Setting

You can change the behavior of the Battery status LED if the out-of-box behavior for a charging battery (blinking green) is not acceptable to your environment.

You can choose one of three options:

- **Honeywell Battery LED** (factory default, out-of-box configuration)
- **Default Battery LED** (optional Android OS configuration)
- **No Battery LED**

## Honeywell Battery LED Behavior (Factory Default/Out-of-Box Configuration)

Connected to Power	LED State	Description
No	Blinking amber	Battery level is below 15%
No	Off	Battery level is more than 15%
Yes	Steady amber	Battery level is between 0% and 60%
Yes	Blinking green	Battery level is between 60% and 95%
Yes	Steady green	Battery level is above 95%
Either	Blinking red	Battery error

## Default Battery LED Behavior (Optional Android OS Configuration)

Connected to Power	LED State	Description
No	Blinking red	Battery level is below 15%
No	Off	Battery level is 15% or more
Yes	Steady red	Battery level is below 15%
Yes	Steady amber	Battery level is between 15% and 90%
Yes	Steady green	Battery level is 90% or more

Select the No battery LED setting if you want to use the LED as a notification LED for applications or device management solutions. For more information on how to use the LED as a notification LED, see <http://developer.android.com/guide/topics/ui/notifiers/notifications.html>.

## Change the Battery Status LED Behavior

To change the battery status LED behavior:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Honeywell Settings** > **Battery LED**.
3. Choose one of the options:
  - **Default Battery LED** (optional Android OS configuration)
  - **Honeywell Battery LED** (factory default/out-of-box configuration)
  - **No Battery LED**

## Check the Battery Level and Usage

In addition to the Battery status icon and LED, you can monitor the battery status from the Settings app.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Battery**.

The current percentage of battery power remaining and the amount of usage time left on the battery appear on the screen. A list shows the battery usage for individual apps and services. For usage details, select one of the apps or services in the list. You can also access the **Battery saver** feature from the battery screen.

## About Battery Life and Conservation

If you store the battery outside of the computer for long periods of time, the battery slowly discharges. To maintain battery performance, storing the battery in a charger is recommended. Use the reference table below to learn about how to conserve battery power.

When You Want to:	Do this to Save Battery Power:
Use the computer and the low battery status icon appears or the battery light turns on.	Do one of the following: <ul style="list-style-type: none"><li>• Connect the computer to a charging accessory.</li><li>• <a href="#">Replace the Battery</a> (see page 9).</li></ul>
Stop using the computer for 5 minutes or more.	Make sure that the low battery status icon is not on the screen and that the battery status LED is not on. Press and release the <b>Power</b> button to put the computer to sleep.
Store the computer for more than a day.	<ul style="list-style-type: none"><li>• If you are storing the computer for a few days (e.g., over the weekend), install a fully charged battery or connect the computer to a power source.</li><li>• If you are storing the computer for a longer period of time, remove and charge the battery. When the battery is done charging, store both the battery and the computer in a cool location.</li><li>• If you store the battery for several months, recharge the battery periodically to keep it at peak performance.</li></ul>
Store the battery outside of the computer.	Store the batteries in a charger.

## Battery Recommendations and Safety Precautions



**Caution:** Improper battery replacement or incompatible device usage may result in risk of burns, fire, explosion, or other hazard. Dispose of lithium-ion batteries according to local regulations. Risk of fire and burns if improperly handled. Do not open, crush, heat above 50°C (122°F), or incinerate.

- For maximum battery life, charge the battery at 20 °C (68 °F) to 25 °C (77 °F) and store at 10 °C (50°F) with a 30% charge.
- Do not store the battery at temperatures above 50 °C (122°F). Storage above 50 °C (122°F) may damage the battery.
- Charge the battery before use. Battery ships with only a partial charge.
- See [About the optional Dust Cover](#) on page 7 for approved charging methods. Use of this battery in other devices could result in damage to the device or battery.
- Avoid dropping the battery or computer. If you suspect that the battery or computer is damaged, send it to a Honeywell service center for inspection.
- Replace the battery only with another CW-BAT model battery. This battery has been tested in accordance with applicable safety standards. Contact your Honeywell sales representative or distributor if this battery is no longer available. For more information, see [Battery Part Numbers](#) on page 7.



**Warning: If you have a CN80 NI/CN80G model certified for use in hazardous locations, read [About the optional Dust Cover](#), page 7.**

- Discarded batteries may create a safety hazard. Before disposal, cover the battery contacts with electrical insulating tape.
- Do not modify the battery or attempt to insert foreign objects into it.
- Do not solder directly to the battery contacts.
- Do not drop, apply pressure, or other mechanical shock to the battery.
- Do not disassemble or open, crush, bend or deform, puncture, shred or burn the battery.
- Do not incinerate, microwave, throw into a fire, or expose batteries to temperatures above the documented maximum rating.
- Do not disassemble a battery or try to open or penetrate its housing.
- Do not immerse the battery pack in water or get the battery pack wet before proper installation in the computer.

## Power On the Computer

After you have fully charged and installed a battery, power on the computer for the first time:

- Press and hold the **Power** button for approximately 3 seconds, and then release the button.

## Welcome Screen

The first time you power on the computer, a Welcome screen appears. You can either scan a configuration bar code or use the Wizard to manually set up the computer. To learn more about how to [Scan Bar Codes](#), see [page 53](#).

During the manual setup process, follow the prompts on the screen as the wizard has you:

- Set the default language.
- Set up the Wi-Fi network connections.
- Set the time, date, and time zone.
- Personalize (name) the computer.
- Set up security and privacy options.

Once you complete the initial setup, the Welcome screen no longer appears when you power on the computer and **Provisioning mode** is automatically turned Off (disabled). Scanning a bar code to install applications, certificates, configuration files, and licenses on the computer is restricted when **Provisioning mode** is turned Off. To learn more [About Provisioning Mode](#), beginning on [page 88](#).

## Unlock the Screen

The screen lock automatically activates every time the computer is turned on or when the computer wakes from sleep mode.

- Swipe up from the lock icon at the bottom of the screen.

The level of security provided depends on the type of lock set (e.g., Swipe, Pattern, PIN, or Password). The default setting, Swipe, provides no protection against unauthorized access to your computer.

## Enable Airplane Mode

If you do not need to connect to any wireless networks, you can enable Airplane mode to turn Off the radios and save battery power.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Wireless & Networks**.
3. Tap **Advanced**.

Tap the toggle button next to **Airplane mode**. An airplane icon appears in the status bar to indicate Airplane mode is turned On.

# Change the Screen Lock to Protect the Computer

After you start using the computer, you should change the screen lock to prevent unauthorized persons from accessing the computer after the screen lock activates unless they input the correct password, pin, or pattern.

The recommended setting for the Screen lock is to enable a Password lock. Use a strong password value (e.g., include numbers, characters, special characters, and mix character case).

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Security & location** > **Screen lock**.
3. Choose one of the following options:
  - **None**
  - **Swipe**
  - **Pattern**
  - **PIN**
  - **Password**
4. Follow the on-screen prompts to complete the setup.

Exit the Settings app.

## Assured Radio Deactivation

This application can deactivate and reactivate all radios.

To enable the application:

1. Swipe up on the Home screen.
2. Tap **Assured Radio Deactivation**.
3. Tap **OK**.
4. Toggle Deactivate All Radios on or off. You will be prompted for reboot.
5. Tap **Yes**.

### Assured Radio Deactivation Indicators

Wireless Center Icon Color	Assured Radio Deactivation	Radio State	Transmit State
Green	On	Deactivated	No radio transmission. Safety on: No RF energy transmitted.
Red	Off	Active	Radio can transmit. Safety off: RF energy transmitted

# Disabling Ethernet Bridging (In-Dock Communications)

When you place the terminal in the charging dock and establish a connection with a host PC through Ethernet communications, the WLAN radio is deactivated. When the session is dropped, the WLAN radio returns to its previous state. Bluetooth communications, if activated, are not affected.

**Note:** *The charging dock only has a USB connector. For Ethernet support, you need to attach an Ethernet adapter to the charging dock. To order an Ethernet adapter, contact your Honeywell representative.*

## About Batch Configuration

Honeywell Batch mobile computers are manufactured without RF transmission capabilities. Once a device is manufactured as a Batch device it has no capability of any RF transmission. There is no firmware or software that can be added to the device that will allow it to transmit an RF signal.

- CN80G-LON-6EN241F – 4 designates Batch Configuration

**Note:** *RF transmission cannot be turned on in the field accidentally or purposely.*

## Select a Touch Screen Profile to Optimize Performance

Optimize screen interactions by selecting a touch screen profile designed specifically for your use case. For example, if you wear gloves, set the touch screen profile to Glove use enhanced for the best touch screen response.

**Note:** *Maximum glove thickness of 2 mm (0.08 inches) for touch screen response.*

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Honeywell Settings** > **Touch Screen Profiles**.
3. Choose one of the following options:
  - **Normal mode**
  - **Finger enhanced mode**
  - **Glove enhanced mode**
  - **Stylus enhanced mode**
4. Exit the Settings app.

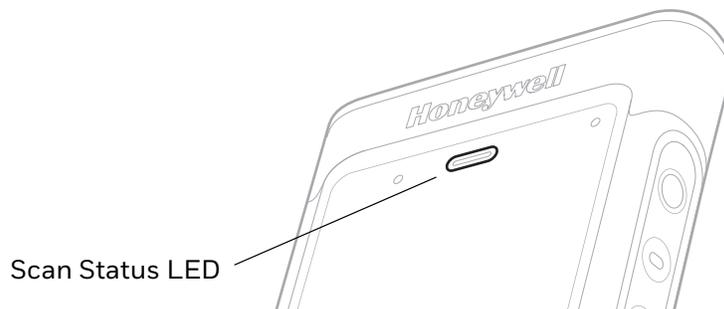
# Configure the Screen Backlight

The display has an ambient light sensor that automatically adjusts the backlight intensity to conserve power and ensure the display is readable. You can also manually set the backlight intensity if you do not want to use the automated adaptive brightness feature.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Display**.
3. Choose one of the following options:
  - To have the computer automatically adjust the brightness for your work environment, turn On the **Adaptive brightness** setting. You can tap **Adaptive brightness** to toggle the feature On or Off.
  - To set the brightness level manually, verify the Adaptive brightness feature is turned Off, and tap **Brightness level**. Adjust the slider to set the brightness level.

## About the Scan Status LED

The Scan Status LED indicates the read status of the imager when scanning a bar code. When active, the LED illuminates the outer ring of the front speaker.



### Scan Status LED Descriptions

LED Color	Description
Green	Good read of a bar code.
Blinking green	The data collection engine is processing or starting up.
Red	Failure to scan bar code. Check to make sure you have the correct symbology enabled.

To learn more about how to use and configure the imager engine for scanning, see [Use the Image Engine](#) beginning on page 45.

# About the Keypad

The Dolphin CN80 is available in two keypad configurations.

## 40-Key QWERTY Keypad



## 23-Key Numeric Keypad

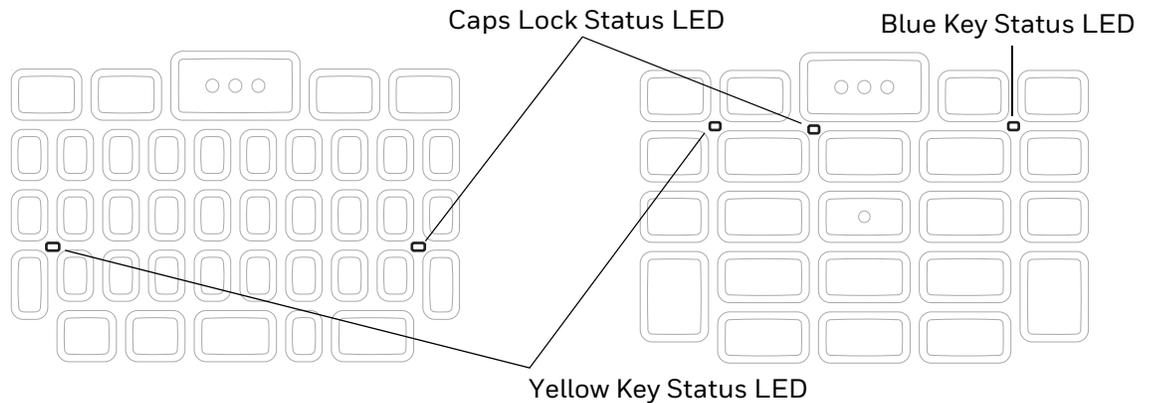


# Keypad LEDs

Special characters and alternate functions are entered by pressing color-coded key sequences. Keypad LEDs indicate when a color-coded modifier key is active or when caps lock is turned On. Models with a QWERTY keypad include a yellow modifier key for typing alternate numbers and symbols. Models with a numeric keypad include both yellow and blue modifier keys for typing alternate characters, symbols, and functions.

## 40-Key QWERTY Keypad

## 23-Key Numeric Keypad



## Keypad LED Descriptions

Status LED	Color	Description
Yellow Modifier Key Status	Yellow	Illuminated when the yellow modifier key is enabled.
Blue Modifier Key Status	Blue	Illuminated when the Blue modifier key is enabled. Available on numeric keypad models only.
Caps Lock Status	White	Illuminated when caps lock function is enabled.

# About the Color-Coded Keys

Use the keypad color-coded modifier key(s) and the caps lock function to access all the characters, numbers, symbols and functions on the computer.

## Enter Characters on the QWERTY Keypad

Computer models with a QWERTY keypad include a yellow modifier key for typing alternate numbers and symbols. A caps lock/shift key is also included for uppercase character input.

To type an alphabetical character:

- Press the relevant character key.

To type a number or special symbol:

1. Press the yellow modifier key.
2. Press the key for the number, symbol or special character.

Example: Press  and then  to type the number 1.

To lock the modifier key On and type only numbers, symbols or special characters:

1. Press the yellow modifier key twice in rapid succession.
2. Press the number, symbol or special character sequence.
3. Select the modifier key again to unlock the modifier.

Example: Press   and then    to type the number 111.

To type a single uppercase character:

1. Press the caps lock (shift) key.
2. Press the character key.

Example: Press  and then  to type the capital letter Y.

To type all uppercase characters:

1. Press the caps lock (shift) key twice in rapid succession.
2. Press the character keys.
3. Press the caps lock (shift) key again to turn caps lock Off.

Example: Press   and then     to type COLD.

## Enter Characters on the Numeric Keypad

Computer models with a numeric keypad include a yellow modifier key and a blue modifier key for typing alphabetical characters and accessing functions.

To type a number:

- Press the relevant number key.

To type an alphabetical character:

1. Press the blue modifier key.
2. Press the key one to three times in rapid succession depending on the position of the character illustrated on the key.

Example: Press  and then    to type “c”.

To capitalize an alphabetical character:

1. Press the blue modifier key.
2. Press the number 1 key to activate caps lock (shift).
3. Press the key one to three times in rapid succession depending on the position of the character illustrated on the key.

Example: Press   and then    to type “C”.

To access a function (e.g., F1 - F10):

1. Press the yellow modifier key.
2. Press the key with the function that you want to access.

Example: Press  and then  to access function F2.

**Note:** To lock a modifier key on, press the modifier key twice in rapid succession. To unlock the key, press the modifier key again.

## About the Audio Features

The CN80 has multiple speakers, a microphone, and several software tools to configure sound volume or enable vibration feedback.

### Adjust Speaker Volume

Use the volume buttons on the left side of the computer to adjust the volume of ringtones, media, notifications, and alarms.

**Note:** The volume setting varies by OS version.

1. Press either the Volume Up or Volume Down button. The volume slider appears.
2. Depending on the OS version:
  - Tap the down arrow  to expand the options.
  - Tap  for Sound Settings.

## Enable Vibrate Mode

You can use the Volume down button to quickly enable Vibrate mode so the computer vibrates instead of emitting sound for notifications and rings. If you still want to hear alarms, turn On the Alarms only feature.

**Note:** *The Vibrate mode varies by OS version.*

Depending on the OS version:

1. Press the **Volume down** button until the computer vibrates.
2. To turn on the Alarms only feature, press the **Volume down** button again with the volume slider open.

OR

1. Press on of the Volume buttons until the volume slider appears.
2. Tap  to toggle between Vibrate, Off, and On.

The status bar at the top of the screen indicates the active mode:

- When Vibrate mode is active,  appears.
- When Alarms only mode is active, the Do Not Disturb icon  appears.

## Audio Settings

This section describes the audio and sound settings you can configure in the Settings app.

- To change audio settings, select the **Settings** app  and tap **Sound**.

**Note:** *Sound settings are model dependent. Some settings may not be available for your model type.*

### Sound Settings

Setting	Description
Media Volume	Use the sliders to set the volume for media (e.g., music, videos, and games), calls, alarms and rings (notifications and ringtones).
Call Volume	
Alarm Volume	
Ring Volume	
Also Vibrate for calls	Select to enable vibrate mode when the phone is ringing.
Do not disturb	Select to set which notifications to let through when you have Do Not Disturb turned On and when you want to be left alone.

Setting	Description
Shortcut to prevent ringing	Set Press Power & Volume Up together. Options include Vibrate, Mute, and Do Nothing.
Phone ringtone	Select a default ringtone.
Default notification ringtone	Select a notification sound.
Advanced	Select to expand the settings menu.
Default alarm ringtone	Select a alarm sound.
Emergency broadcasts	Select to configure Emergency alert settings. Turn alerts On or Off, specify tone, vibrate or text-to-speech.
Other sounds	
Dial pad tones	Enable or disable an audio sounds when you use the phone dial pad.
Screen locking sounds	Enable or disable an audio tone when the screen is locked.
Charging sounds	Enable or disable an audio tone when the computer is charging.
Touch sounds	Enable or disable audio sounds when you use the touch screen.
Vibrate on tap	Enable or disable vibrate mode when you touch the screen.

## About the CN80 Cold Storage Model Heater

CN80 Cold Storage (CS) models come equipped with touch screen and scan window heaters to support extended use in freezers as well as transitions into and out of freezer areas. The heaters can be set to turn On automatically to defrost the touch screen and scan window based on external temperature changes and timers or the user can control the heaters by manually turning them On or Off.

- **Automatic mode**

This is the default mode of operation for the heaters. Automatic mode maximizes battery life in cold storage environments and provides average window defrost times. In Automatic mode, cold storage battery life may exceed 6 hours (scanning a bar code every ten seconds). Window defrost times should be a minute or less with factory default settings implemented.

If your application requires faster defrost times, you can enable the **Preemptive Heating** (pre-heat) feature to minimize defrost times with average battery life in cold storage environments. This feature slightly reduces cold storage battery life since the heaters enter a low power pre-heat stage before the computer detects a rise in the ambient temperature.

In Automatic mode with **Preemptive Heating** enabled, the cold storage battery life ranges from a maximum of 6 hours to a minimum of 1.5 hours depending on the heater **Preemptive delay time** set. The window defrost times range from zero to a maximum of one minute with factory default settings.

- **Manual mode**

This mode is disabled by default. When enabled, heater activation is controlled solely by the user. No temperature monitoring and timers are used to control the heaters. The user must manually turn the heaters On or Off.

Use the **Settings** app to configure the **Heater** feature. To learn how, see [Heater Parameters](#) on page 26.

## How Automatic Mode Works

Automatic heater management saves power since the heaters are automatically controlled by the system based on cold storage entry/exit detection.

### Cold Storage Entry Detection

In **Automatic** mode, cold storage entry detection occurs when the computer sensors identify a drop in ambient temperature below the defined **Heater enable temperature**. The system starts the **Chill timer** in response to cold storage entry detection.

**Note:** *If you remove the computer from cold storage before the Chill timer expires, the timer stops and the system does not turn On the heaters, saving battery power.*

*A snowflake ❄️ icon appears in the status bar when the Chill timer expires.*

### Cold Storage Exit Detection

In **Automatic** mode, cold storage exit detection occurs when the sensors identify a quick rise in the ambient temperature.

- If **Preemptive Heating** is disabled (default) and the **Chill time** has expired, the system turns the heaters On at full power when a cold storage exit is detected.
- If **Preemptive Heating** is enabled and the **Chill time** has expired, the system starts the **Preemptive delay time**. When the **Preemptive delay time** expires, the heaters enter a low-power pre-heat stage. Pre-heating keeps the windows warm to minimize condensation and frost when the computer is removed from cold storage allowing for quicker defrost times. The system turns the heaters On full power when a cold storage exit is detected.

**Note:** *When the heaters turn On, the icon changes from a snowflake ❄️ to a heater 🔥.*

## Turn the Heaters On/Off in Automatic Mode

When **Automatic** mode is enabled, you can still manually turn the heaters On or Off while in cold storage.

Tap the snowflake ❄️ or heater icon 🔥 in the status bar.

- If **Preemptive Heating** is disabled, the heater **Preemptive delay time** is not used and pre-heating does not automatically start, but the snowflake icon ❄️ can still be tapped to turn On the heaters for pre-heating.

- If you enabled **Preemptive Heating**, the heater **Preemptive delay time** stops when the icons are used to turn the heater On or Off.

## How Manual Mode Works

**Manual** mode gives you full control over turning the heaters On or Off. When **Manual** mode is enabled, automatic cold storage enter/exit detection is no longer used to control the heater behavior. To turn the heaters on/off, you must tap a button on the Heater screen in the Settings app. Full power is used for defrosting. Manual mode is disabled by default.

### Turn Manual Mode On/Off

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Heater**.
3. Tap the **Automatic/Manual** button to switch between the Automatic or Manual mode. The active mode appears on the button. When Manual mode is enabled, the **Heater On/Heater Off** button next to the mode button is active.
4. Tap the **Heater On/Heater Off** button to control the heaters.

## Configure the Heater in the Settings App

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Heater**.
3. Modify the heater parameters.
4. Tap **Update** to apply the changes.
5. Tap **OK**.

## Heater Parameters

You can configure the following **Heater** parameters in the **Settings** app to fit your specific application environment.

Heater Setting	Description
Heater	Enable or Disable the Heater feature and temperature monitoring. Tap the switch button at the top of the screen to toggle the feature On or Off. The default is On.
Turn heater on when the temperature has changed by	Set the sensitivity of the cold storage exit trigger by defining a <b>DeltaT</b> value. To detect a cold storage exit, the computer looks for a quick rise in temperature (°C), over a brief period of time. The default <b>DeltaT</b> value is 0.5°C.

Heater Setting	Description
Duration: Heater	Set the length of time (minutes) the heaters stay On at full power (100%) once the computer detects a quick rise in temperature ( <b>DeltaT</b> value, see above). The default value is 5 minutes. <i>Note: The heaters may turn Off before the timer has expired if a temperature reading indicates the computer is warm enough or you manually turn Off the heaters by tapping the heater icon once.</i>
Low battery threshold	Set a low battery charge threshold (%) that triggers the computer to turn Off the heaters to conserve battery power. The default value is 25%.
Heater enabled temperature	Set the temperature (°C) that the computer must fall to before the system determines cold storage entry and heater use. Once this temperature is detected, the <b>Chill time</b> starts.
Chill time	Set the time limit (minutes) for how long the computer must remain at or below the defined <b>Heater enable temperature</b> before the system initiates one of the following actions: <ul style="list-style-type: none"> <li>• If in <b>Automatic</b> mode and <b>Preemptive Heating</b> is disabled, the system turns the heaters on when a cold storage exit is detected (see <b>DeltaT</b> value).</li> <li>• If in <b>Automatic</b> mode and <b>Preemptive Heating</b> is enabled, the system starts the <b>Preemptive Delay Time</b>.</li> </ul> <i>Note: If you remove the computer from cold storage before the Chill time expires, the system does not turn On the heaters, saving battery power.</i>
Preemptive Heating	Enable or disable <b>Preemptive Heating</b> (pre-heating) when <b>Automatic</b> mode is enabled. Tap the check box to toggle the feature On or Off.
Preemptive Duty Cycle	Set the percentage of time that the heaters are on during <b>Preemptive Heating</b> .
Preemptive Delay Time	Set the length of time (minutes) that the computer waits after the <b>Chill time</b> has expired before activating the low power pre-heat window feature.
Manual/Automatic	Tap the button to switch between <b>Automatic</b> mode or <b>Manual</b> mode. To learn more about the modes, see <a href="#">How Automatic Mode Works</a> on page 25 and <a href="#">How Manual Mode Works</a> on page 26.
Duration: Scanner heater	Set the length of time (seconds) that the scanner window heater is cycled on.
Duration: LCD heater	Set the length of time (seconds) that the touch screen heater is cycled on.
Fast monitoring interval	Set sampling interval time (seconds) used once the computer detects cold storage entry. Cold storage entry is defined by the <b>Heater enabled temperature</b> .
Slow monitoring interval	Set sampling interval time (seconds) used once the computer detects cold storage exit (defined by <b>DeltaT</b> value).
Disable temperature	Set the temperature limit (°C) that triggers turning off the heater.
Blanking	Tap check box to enable or disable heater operation during scanning.

Heater Setting	Description
Update	Tap to apply changes made to settings.
Default	Tap to set the Heater settings back to their default values.

## Insert a microSD Card

You can use a microSD card to increase file storage capacity or to install software. Honeywell recommends the use of Single Level Cell (SLC) industrial grade microSD or microSDHC memory cards with the computer for maximum performance and durability.



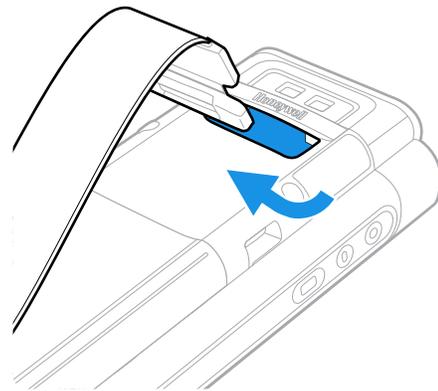
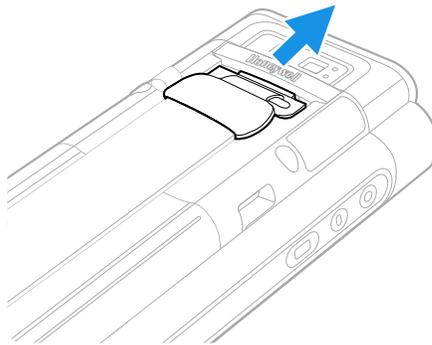
**Caution:** Always power off the computer before attempting to install or remove a card.



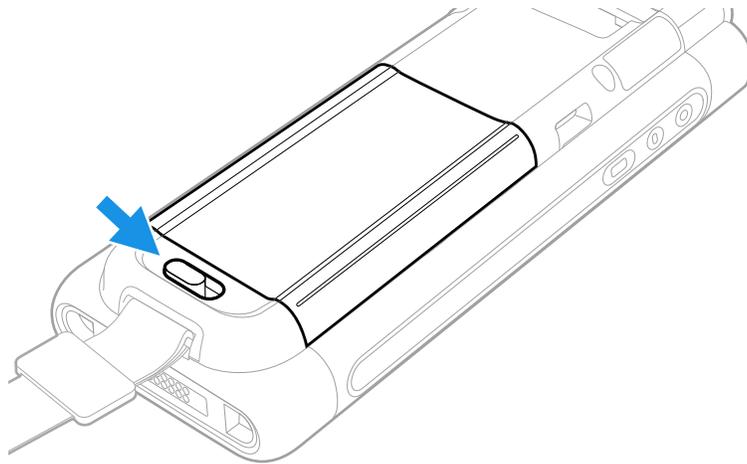
**Warning:** If you have a CN80 NI/CN80G model certified for use in hazardous locations, read [About the optional Dust Cover](#), page 7.

**Note:** Format the memory card before initial use.

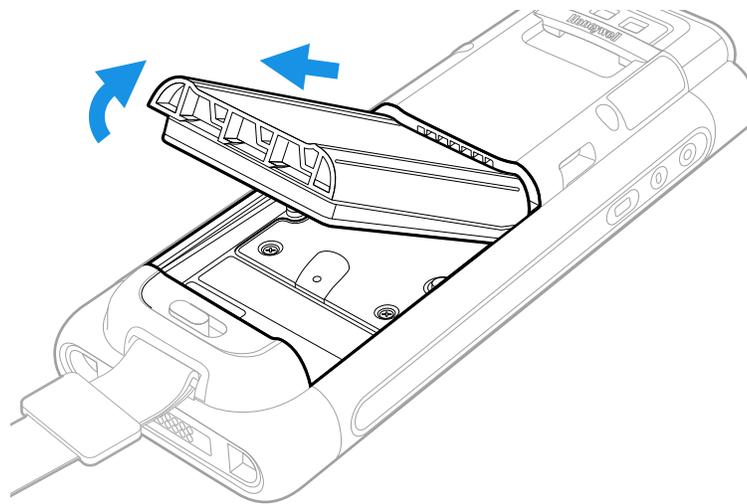
1. Save your files and close any open applications.
2. Press and hold the **Power** button until the options menu appears.
3. Tap **Power Off**.
4. Release one end of the hand strap.



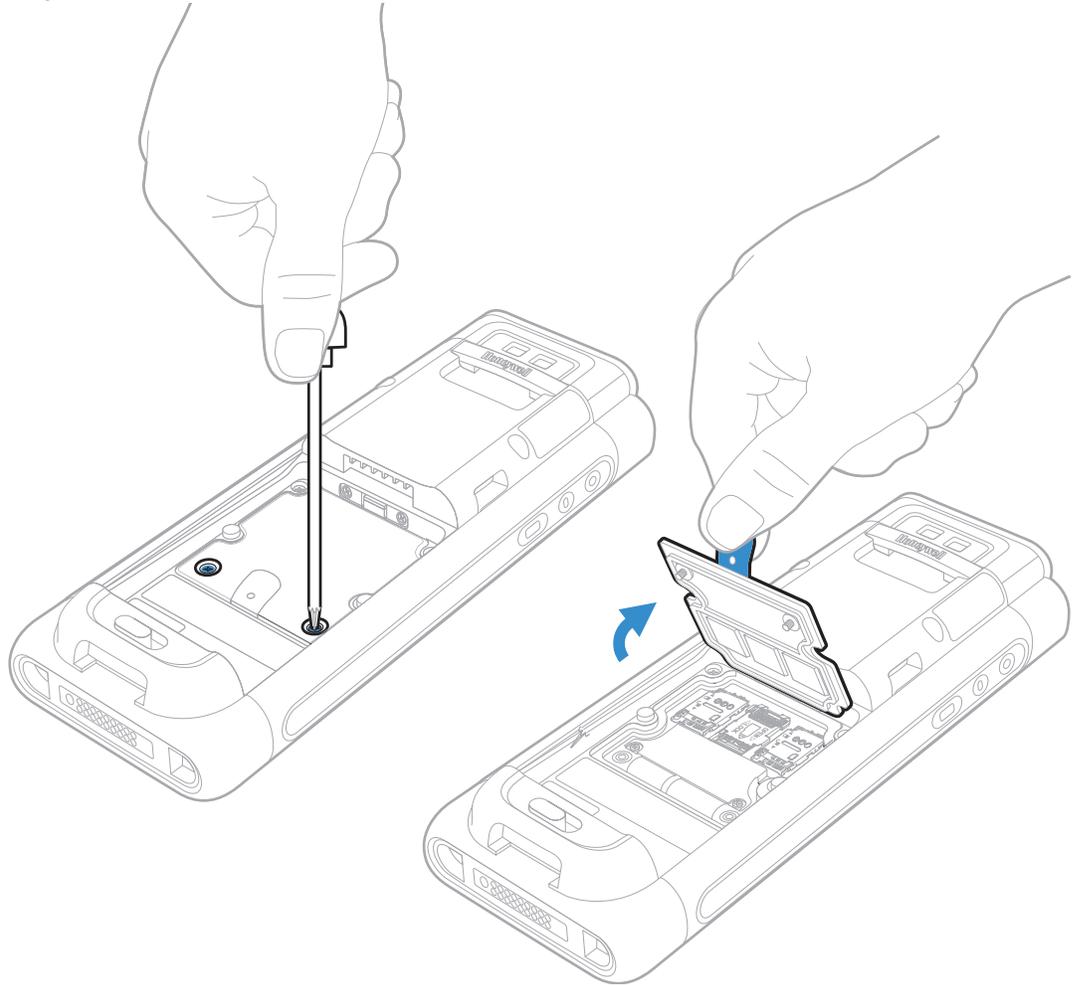
5. Slide the battery latch to the right.



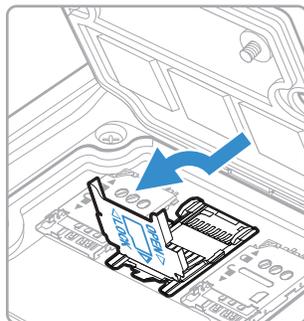
6. Lift up on the edge of the battery and remove it from the computer



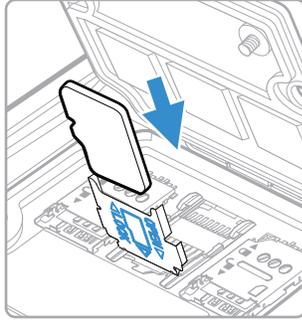
7. Loosen the screws securing the card access door closed. Use the tab to lift the edge of the door.



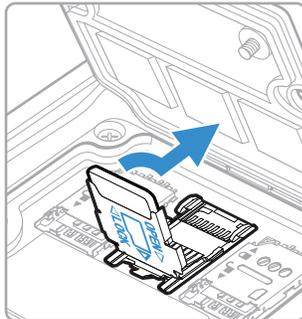
8. Press down gently and slide the card holder away from the open access door. Lift the edge of the holder up.



9. Insert the microSD card into the card holder with the contacts facing out.



10. Close the holder with the card inserted. Press down gently on the card holder and slide it into the locked position.



11. Close the card access door and tighten the screws.
12. Install the battery and apply pressure to the edge closest to the battery latch.
13. Install the hand strap.
14. Press the **Power** button to turn On the computer.

## How to Transfer Files

To transfer files you need to physically connect the CN80 mobile computer to your workstation (e.g., laptop or desktop computer) through a USB connection. When the mobile computer is connected and USB is configured for file or photo transfer, use a file browser (e.g., File Explorer or Windows Explorer) on your workstation to transfer files between the two computers. If you are transferring files to and from a Mac, use the Android File Transfer application (available from [www.android.com/filetransfer](http://www.android.com/filetransfer)).

**Note:** File transfer through a USB connection is disabled by default. You need to configure the USB connection for transferring files or photos.

You can use these accessories to connect your mobile computer to your workstation:

- Home Base or Ethernet Home Base, and a standard USB Type B to A cable
- Snap-On Adapter, Tethered USB Cable client (PN CN80-SN-USB)

# Configure USB Connection and Transfer Files

**Note:** The CN80 supports Hi-Speed USB communications (USB 2.0) with a maximum data transfer rate of 480 Mbps.

1. Connect the CN80 to your workstation.
2. On the CN80, swipe down from the top of the screen to see the notifications.
3. Tap the **Android System** notification twice to open the options menu.
4. Select either **Transfer files** or **PTP (Transfer photos)**.
5. Open the file browser on your workstation.
6. Browse to the CN80. You can now copy, delete, or move files between the CN80 and your workstation.

# Accessories for the Computer

The Dolphin CN80 ships with a battery, hand strap and stylus. All other accessories are ordered and shipped separately.

For a complete list of compatible accessories for the CN80 mobile computer series and their part numbers see the *Dolphin CN80 Accessory Guide* available for download from the CN80 product page at [www.honeywellaidc.com](http://www.honeywellaidc.com).

Contact your local sales representative for ordering information.

Accessory	Description
Battery (Model CW-BAT)	Replacement or spare 3.85 V, 5800 mAh Li-ion rechargeable battery for the CN80.
Ethernet Home Base (Model CX80-EB/ PN CN80-EB-CNV)	Use the Ethernet Home Base to hold a computer with a battery installed, charge a spare battery pack, charge the main battery pack, and provide power to the mobile computer. The Ethernet base has a USB client connector (Type B) as well as an Ethernet connector.
Home Base (Model CX80-HB-CNV/ PN CN80-HB-CNV)	Use the Home Base to hold a computer with a battery installed, charge a spare battery pack, charge the main battery pack, and provide power to the mobile computer. The Home Base has a USB client connector (Type B).
Charge Base (Model CX80-CB/ PN CN80-CB-CNV)	The Charge Base is a 4-slot charging cradle that can power four computers, and charge their main batteries in 4 hours.
Net Base (Model CX80-NB/ PN CN80-NB-CNV)	The Net Base enables up to four computers to communicate with a host device over an Ethernet network. The Net Base also provides a second RJ45 Ethernet port for connection to an additional device such as a printer, workstation, or another Net Base.
Wireless Vehicle Dock (Model CX80-VD-WL/ PN CN80-VD-WL)	Use the wireless vehicle dock to hold and charge the computer in a vehicle environment. NFC capable for seamless Bluetooth™ pairing. Wireless Vehicle Dock provides a hard-wired 3-pin power jack and cigarette lighter adapter cable.

Accessory	Description
Wired Vehicle Dock (Model CX80-VD/ PN CN80-VD-SRH)	Use the wired vehicle dock to hold and charge the computer in a vehicle environment. Provides hard-wired 3-pin power jack and USB host (DB15) receptacle (5V/500 mAh DC) for powering peripherals. Charges mobile computer battery in 4 hours or less. Includes cigarette lighter adapter cable.
Quad Charger (Model CX80-QBC/ PN CN80-QBC-UV)	Use the quad charger to charge up to four batteries.
Snap-On Adapter, Tethered USB Cable (Model CX80-SN-USB/ CN80-SN-USB)	Use this snap-on adapter for tethered USB client connectivity. This for transferring data or charging your computer.
Snap-On Adapter, Tethered USB Cable with Cigarette Lighter Adapter Converter (Model CX80-SN-VPA/ CN80-SN-VPA)	Use this snap-on adapter for USB client connectivity via a tethered USB cable with cigarette lighter adapter converter for charging in a vehicle environment.
Snap-On Adapter, Serial and USB Host with USB Type Wall Charger Cable (Model CX80-SN-SRH/ CN80-SN-SRH)	Use this snap-on adapter for serial or USB host connectivity (via DB15) and to charge the computer.
Scan Handle (Model CX80-SH-DC/ CN80-SH-DC)	Attach the scan handle to the CN80 mobile computer for easier grip and trigger action when scanning labels.
Holster (Model CX80- HST/ PN CN80-HST)	Use the holster to carry the computer hands-free in the work environment. Offered with or Scan Handle.

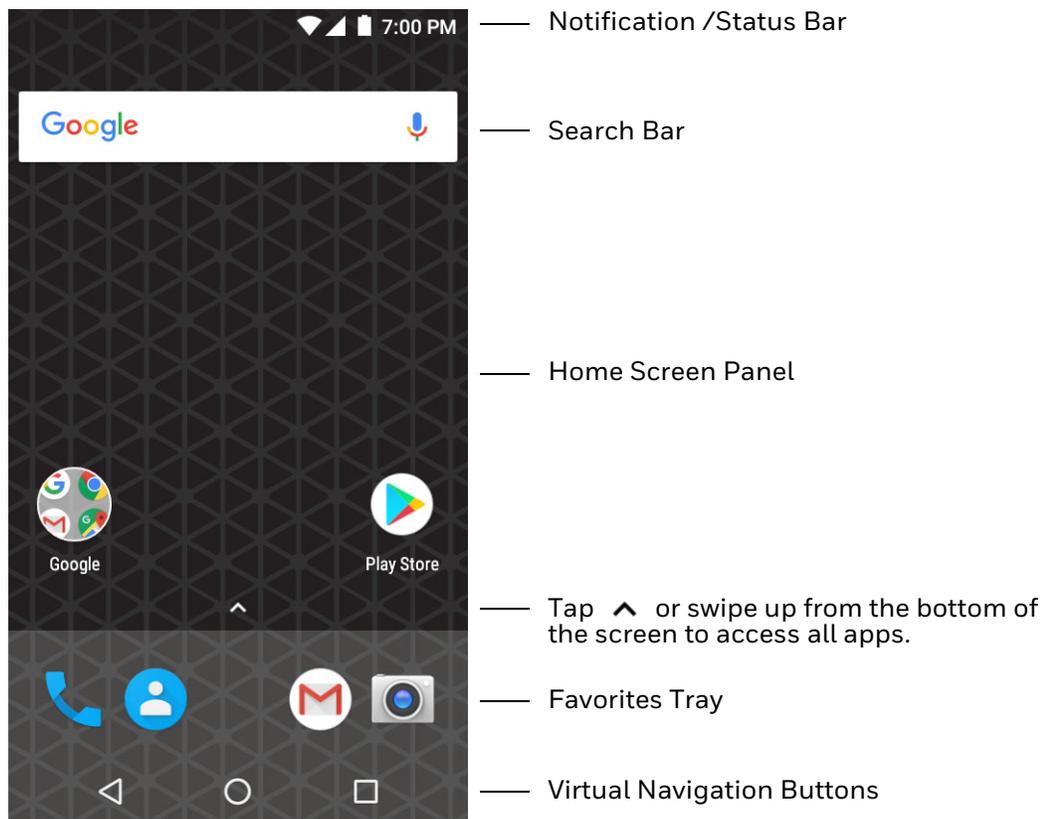


# ABOUT THE USER INTERFACE AND APPLICATIONS

Use this chapter to learn about the user interface and how to interact with the screen. You can also use this chapter to learn about the Honeywell applications on the computer.

## About the User Interface

The Android 8 operating system provides a touch-friendly and easy-to-navigate user interface. When you turn on the mobile computer, the Home screen is the first screen that appears after language provisioning and the startup Wizard is complete.



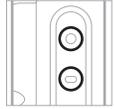
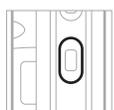
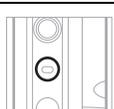
## Home Screen Features

Item	Description
Notifications panel / Status bar	Status icons to the left tell you when an app has sent notifications, such as an arriving message. System icons to the right display the current wireless and network connection state and battery level.
Search bar	Search the Internet or the computer using Google™. Touch the microphone icon in the search box to initiate a voice search or command.
Home Screen Panel	You can create more than one custom Home screen panel. Swipe left or right on the Home to switch between your custom panels.
Favorites tray	App icons in the customizable tray are visible on all Home screen panels.

## Navigation and Function Buttons

Your mobile computer has virtual buttons on the front panel below the Favorites tray and hardware buttons located on the sides for easy navigation and quick feature access when using the computer.

### Navigation and Function Buttons

Button	Description	
	Back	Return to the previous screen.
	Home	Return to the Home screen.
	Recent Apps	View and switch between recently used apps.
	Volume	Raise or lower the volume of the active speaker.  For button location on computer, see <a href="#">Features of the CN80 Mobile Computer</a> , beginning on page 3.
	Scan	Press the right or left scan button to trigger the scanner.
	Aux	Use the Key Remap feature in the Settings app to select a button function. For example, the button could be set to initiate the push-to-talk (PTT) feature.  For button location on computer, see <a href="#">Features of the CN80 Mobile Computer</a> , beginning on page 3.

## About Status Bar Icons

Status and notification icons show you the current status of your network, the battery, notifications, and sounds. Use the table below to understand some of the most common icons.

### Status and Notification Icons

Icon	Description	Icon	Description
	Pending alarm and Alarm is set		Vibrate mode is turned On
	New text message or multimedia message		Airplane mode is turned On.
	Error with text or multimedia message delivery		Bluetooth is turned On.
	New email		SD card is full
	Computer is connected to a PC with a USB cable		Wi-Fi network connected with full signal strength
	Synchronizing data		WiFi network connected but no signal strength
	Error with sync or sign-in		Phone connected with full amount of bars.
	Computer is connected with Ethernet		Phone connected with full amount of bars but no Internet connection.

## Remap a Button or Key

You can change the default function of the physical buttons and keys.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Honeywell Settings** > **Key Remap**.
3. Tap the plus sign (+).
4. Press the button or key you want to remap.
5. Tap **OK**.
6. Tap **Keys** or **Applications** to view the available functions.
7. Select the function you want assigned to the button. The function you selected now appears next to the button or key name.

## Restore Default Button Action

To restore the button default action:

1. Swipe up from the bottom of the Home screen to access all apps.
  2. Tap **Settings**  > **Honeywell Settings** > **Key remap**.
  3. Tap the clean icon .
  4. Choose the remapped button(s) you want restored to the default setting.
    - Tap the check box next to the button.
- OR
- Tap **All Select** to choose all the buttons.
  5. Tap **Delete**.

## View and Manage Notifications

You can view recent events on the computer, manage system notifications, change a setting or quickly respond to an app notification by opening the notifications panel.

When a notification icon appears in the status bar at the top of the screen:

1. Swipe down from the top of the screen to open the notifications panel.
2. Respond to the notification. You can take one of the following actions:
  - Tap the notification to open the associated app.
  - Tap a quick-reply or action command (e.g., Reply, Archive), if available.
  - Swipe the notification sideways, off the screen to dismiss it. Note that some notifications cannot be dismissed.
  - Slide the notification left or right to reveal the settings icon . Choose between **Show notifications silently**, **Don't silence**, or **More Settings**.

To close the notification panel, swipe up from the bottom of the screen, or tap the Back or Home buttons.

## Open Quick Settings

Use the Quick Settings screen for easy access to common settings. Tap an icon to toggle the feature On/Off or to open additional settings.

- To open Quick Settings, swipe down twice from the status bar at the top of the screen.
- To close Quick Settings, tap the top of the screen, Back or Home buttons.

## Customize the Home Screen

You can add application icons to any Home screen for easier access.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap and hold the app you want to add. The computer vibrates, and then switches to a smaller view of the Home screen panels.
3. Drag and drop the app icon into place.
  - If you want to add another home screen, drag the icon to the right edge of the screen before releasing the icon.
  - If you want to create a folder, drag and drop the icon on top of another icon.

To add a Widget or customize the look of the Home screen:

1. Tap and hold an empty section of the screen.
2. Select either **Wallpapers**, **Widgets**, or **Home Settings**.

## Customize the Favorites Tray

Modify the Favorites tray to contain the apps you use the most.

1. Tap and hold the app icon you want to replace on the Favorites tray.
2. Drag and drop the app on “**X Remove**” at the top of the screen.
3. Swipe up from the bottom of the screen to access all apps.
4. Tap and hold the icon of the app you want to add.
5. Drag and drop the icon into position on the Favorites tray.

## Use Google™ Search

Use the Google Search field at the top of the Home screen to help you find anything you need on the computer or on the web.

1. On the Home screen, tap inside the Google Search box and begin to type your search term.

As you type, suggestions from Google web search appear below the Search box, and results from the computer (such as apps or contacts) appear below the web search results.
2. Tap a suggestion to search for it immediately, or touch the arrow to add the term to the search field without starting to search.

## About Screen Gestures

Use your fingers or the stylus to manipulate icons, buttons, menus, the on-screen keyboard, and other items on the screen.

- **Tap**

Tap to select something, toggle a setting On or Off, or activate a field for text entry. An on-screen keyboard automatically appears for text entry.

- **Tap and hold**

Tap and hold an item but do not lift your finger or stylus until an action occurs.

- **Drag and drop**

Tap and hold an item, and then slide your stylus or finger across the screen until you reach the target position. Lift your finger or stylus off the screen to drop the item in place.

- **Swipe**

Quickly move your finger across the screen, without pausing when you first touch. For example, you can swipe a Home screen left or right to view the other Home screens.

- **Slide**

Slowly move your finger across the screen, without pausing when you first touch. For example, you can slide a notification to the left until the Settings gear is revealed.

- **Double-tap**

Tap quickly twice on a web page, map, or other screen to zoom in. Double-tap again to zoom out.

- **Pinch**

In some apps, you can zoom in and out by placing two fingers on the screen at once and pinching them together (to zoom out) or spreading them apart (to zoom in)

## Set the Time Zone

The computer gets the current date and time from its network connection. If preferred, you can change this behavior and manually set the time zone for your location.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **System** > **Date & time**.
3. Tap **Automatic time zone** to turn off the feature.
4. Tap **Select time zone** and choose the time zone for your location.

# About Honeywell Applications

Honeywell applications help you troubleshoot and connect your computer to other devices and networks. Some of the applications in this table are located in the Power Tools app. To learn more about Honeywell Power Tools, go to [www.honeywellaidc.com](http://www.honeywellaidc.com) to download the *Dolphin Power Tools User Guide*.

## Honeywell Applications Available on the Computer

Icon	Application	Description
	AutoInstall Settings	Enable the AutoInstall feature, to automatically install *.zip or *.apk files containing applications saved in the Internal shared storage\honeywell\autoinstall folder and IPSM card\honeywell\autotinstall folder on the computer during the power-up boot or reboot process.
	Assured Radio Deactivation (ARD) (CN80G models only)	Use the ARD feature to deactivate and reactivate all radios (802.11, Bluetooth, NFC, and Zigbee)
	Carrier Select	The SIM Selection app only appears on CN80L1N models. Use the app to quickly change your network carrier.
	Demos	Honeywell Demo apps demonstrate the basic capabilities of the computer and are not intended as functional business solutions. The demos included, demonstrate scanning, signature capture, NFC functionality, and printing via Bluetooth technology. Information on how to create custom applications for your Honeywell mobile computer can be found in the Honeywell Software Development Kit (SDK) for Android, available from the <a href="#">Technical Support Downloads Portal</a> .
	HU Upgrader	Use the HU Upgrader app to view the current OTA version on the computer, check for updates, or initiate an OTA upgrade from storage.
	SIM Selection	The SIM Selection app only appears on CN80L1N models equipped with dual SIM slots. Use the app to configure and switch between two SIM cards installed in the computer.
<b>Dolphin Power Tools</b>		
	BattMon	BattMon provides information on the charge status and health of the battery, and provides access to activate battery status notifications and battery charging history logs.
	Configure Autorun	Configure Autorun provides the ability to set applications to automatically run after a reboot.
	Diagnostic Information	Diagnostic Information provides access to system statistics, notifications and version information about the computer.

Icon	Application	Description
	EZConfig	EZConfig supports advanced customization and configuration of the hand held computer. EZConfig includes a standard XML editor and configuration bar code scanner feature.
	Wireless Tether	Use to enable range tracking and customize out-of-range alerts for Bluetooth devices paired and tethered to your hand held computer.
	WiFi Diagnostic	Use application to: <ul style="list-style-type: none"> <li>• View Wi-Fi radio status information about a connected access point or a list of other available access points in range of the Wi-Fi radio.</li> <li>• Use the Route utility to view packet destination gateway information across the subnets.</li> <li>• Use the IPConfig utility to view IP parameters for the on-board network adapters.</li> <li>• Use the Ping utility to verify communication links or to make sure a specific IP address is working.</li> </ul>

## Applications You Can Download to the Mobile Computer

You can download Honeywell applications to extend the capabilities of the computer. You may need to purchase a license to run some applications. To learn more about the applications described in this section and other Honeywell software solutions, go to [www.honeywellaidc.com](http://www.honeywellaidc.com) > **Browse Products** > **Software**.

### About Honeywell Enterprise Browser

Enterprise Browser for Microsoft® Internet Explorer® is a locked-down enterprise Web client application designed for Honeywell computers. It provides a controlled Web application environment that helps enterprises increase productivity and reduce IT management expenses. You can configure Enterprise Browser for your specific application requirements and design custom web applications that run through the Enterprise Browser to provide your users with an easy-to-use yet controlled experience.

If Enterprise Browser is not included on your computer model, you can download a trial version for evaluation. After the evaluation period expires, you need to purchase a license. For more information about Enterprise Browser, visit [www.honeywellaidc.com](http://www.honeywellaidc.com).

### About Honeywell Launcher

Launcher is a configurable locked-down menu program designed for Honeywell computers that prevents end-users from accessing the start menu and other non-authorized applications. Use Launcher to provide a platform where your mobile

computer users are limited to running only company-approved applications and prevent them from initiating unauthorized configuration changes. You can also use Honeywell Launcher together with Honeywell Enterprise Browser to create a single-purpose device configuration.

If Launcher is not included on your computer model, you can download a trial version of the software for evaluation. After the evaluation period expires, you need to purchase a license. For more information about Launcher, visit [www.honeywellaidc.com](http://www.honeywellaidc.com).

## Unlock Developer Options

Developer options only appear in the Settings app if you unlock the feature. If you are a developer working with the computer, you can easily unlock the additional settings to use for testing and debugging applications under development for the computer.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **System** > **About phone**.
3. Tap **Build number** seven times. A message appears informing you that you are now a developer.
4. Tap **Developer options** under **Settings**  > **System**.

## About GMS

Google Mobile Service Includes the following apps: Google, Chrome, Gmail, Maps, YouTube, Drive, Play Music, Play Movies, Duo, Photos, Play Store.



# USE THE IMAGE ENGINE

Use this chapter to understand how to scan bar codes, configure the scan settings, and capture images using the integrated image engine in the computer.

## About the Image Engine

You can use the image engine in the computer as a scanner or camera. There are three engine options for the CN80: N6603 and EX20. See [Specifications](#) for more information.

Use the imager as a scanner to read 1D and 2D bar code symbologies, composite symbologies, and postal codes. It also supports omni-directional scanning for greater flexibility in real-world settings. By default, the scanner feature is enabled and uses the default scan profile. You can modify the **Default Profile** or create new profiles for custom applications from the **Settings > Honeywell Settings > Scanning**.

Use the imager as a camera to capture black and white images, such as signatures or pictures of damaged inventory.

**Note:** *Instead of using the internal imager, you can also use Bluetooth communications to connect the computer to an external scanner, such as the Granit™ 1981i and 1911i.*

## About the Scan Wedge Feature

The scan wedge feature sends scanned bar code data to an active application as Android keypad input. To scan a bar code as keyboard input, open an application that accepts text input and then scan a bar code. You can use applications that are coded to use the scanner or applications that receive data through the scan wedge feature. If an application claims the scanner through the BarcodeReader API, the scan wedge feature is temporarily disabled.

You can find information on how to create custom applications for the computer in the *Software Development Kit (SDK)* available for download from the *Technical Support Downloads Portal* at <https://hsmftp.honeywell.com>. Once you create an account and enter the portal, navigate to **Software > Software and Tools > Developer Library > SDKs for Android**.

# Change the Scanner Settings

Changes you make to the Default profile apply to all applications with no profile assigned.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Honeywell Settings** > **Scanning**.
3. Tap **Internal Scanner** > **Default Profile**.
4. Select from the following:
  - **Data Processing Settings**,
  - **Symbology Settings**,
  - **Decode Settings**,
  - **Imager Settings**,
  - **Trigger Settings**, or
  - **Notification Settings**.
5. Modify the settings to meet your application needs.

To learn more about the scanner settings, [Default Scan Settings](#) on page 47.

# Change the Bluetooth Scanner Settings

When the Bluetooth scanner is paired, changes can be made to the Default profile for the scanner.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Honeywell Settings** > **Scanning**.
3. Tap **Bluetooth Scanner** > **Default Profile** > **Data Processing Settings**.
4. Modify the settings to meet your application needs.

To learn more about the scanner settings, see [Data Processing Settings](#) on page 47.

# Restore Default Scan Settings

You can easily discard all changes you made to the Default profile and restore the default values.

**Note:** *When you choose the Restore all defaults option from any of the settings screens in a profile, all the settings in that profile return to their default values.*

1. Open the **Default profile**.
2. Tap  in the upper right corner of any of the scan settings screens for the profile.
3. Tap **Restore all defaults**.

## Default Scan Settings

Use the following sections to understand the scan settings available for scanner profiles. To learn how to create a new profile, see page [51](#).

## Data Processing Settings

Use the Data Processing Settings to specify how bar code data is processed by the computer.

### Data Processing Settings

Setting	Description	Default										
Wedge	Enable or Disable the scan wedge feature	Enabled										
Charset	Select the character set to use when interpreting the bar code data into a string.	ISO-8859-1										
Prefix	<p>Defines the string added before the decoded bar code data. Substitutions occur within the Prefix string values.</p> <table border="1"> <thead> <tr> <th>Substring</th> <th>Replacement Character Code</th> </tr> </thead> <tbody> <tr> <td>\r</td> <td>13</td> </tr> <tr> <td>\n</td> <td>10</td> </tr> <tr> <td>\t</td> <td>9</td> </tr> <tr> <td>\\</td> <td>"\"</td> </tr> </tbody> </table>	Substring	Replacement Character Code	\r	13	\n	10	\t	9	\\	"\"	None
Substring	Replacement Character Code											
\r	13											
\n	10											
\t	9											
\\	"\"											
Suffix	<p>Defines the string added after the decoded bar code data. Substitutions occur within the Suffix string values.</p> <table border="1"> <thead> <tr> <th>Substring</th> <th>Replacement Character Code</th> </tr> </thead> <tbody> <tr> <td>\r</td> <td>13</td> </tr> <tr> <td>\n</td> <td>10</td> </tr> <tr> <td>\t</td> <td>9</td> </tr> <tr> <td>\\</td> <td>"\"</td> </tr> </tbody> </table>	Substring	Replacement Character Code	\r	13	\n	10	\t	9	\\	"\"	None
Substring	Replacement Character Code											
\r	13											
\n	10											
\t	9											
\\	"\"											
Wedge as Keys	List of character values to wedge as keys, represented as a comma-separated list of decimal values.	9,10										
Data Editing Plugin	Specify a Total Freedom data editing plug-in and edit plug-in settings.	None										

Setting	Description	Default
Symbology Prefix	Specify a symbology identifier prefix to the bar code data. Options include: <ul style="list-style-type: none"> <li>• None</li> <li>• Honeywell</li> <li>• AIM</li> </ul>	None
Launch Browser	Enable or disable URL bar code handling. If a bar code starts with http:// or https://, the browser opens using the bar code data as a URL.  Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH-BROWSER	Enable
Scan to Intent	Enable or disable special handling of scan-to-intent bar codes.  Applies to bar codes in one of the following formats: '//' ACTION '//' ACTION '\$' extra-data  Where: ACTION and extra-data are any string of characters.  Launches an application listening for the intent. Intent action: "com.honeywell.scantointent.intent.action." + ACTION Intent extra: "com.honeywell.scantointent.intent.extra.DATA" contains the remainder of the bar code data after the first '\$' character.  Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_SCAN_TO_INTENT	Enabled
Launch EZ Config	Enable or disable special handling of EZConfig bar codes.  Applies to EZConfig bar codes that are encoded with the Aztec symbology and contain specific header data.  Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH_EZ_CONFIG	Enabled

## Symbology Settings

Use the Symbology Settings to enable or disable bar code symbologies for the selected scan setting profile.

- Tap the check box next to a symbology name to enable (check mark) or disable (no check mark) decoding for that symbology.
- Tap the symbology name to view and modify additional configuration parameters for the symbology selected.

To view a list of default settings for supported symbologies, see [page 98](#).

## Decode Settings

Adjust the Decode Settings when scanning bar codes that are densely packed or poor quality.

### Decode Settings

Setting	Description	Default
Center Decode	<p>When enabled, the imager scans and decodes a bar code only if part of the bar code is at the center of the aimer window. This is useful in situations where several bar codes may be very close together in the imager field-of-view.</p> <ul style="list-style-type: none"> <li>• Tap the check box to toggle the feature On or Off.</li> <li>• Select <b>Center Decode</b> to adjust the Window dimensions.</li> </ul> <p>Honeywell recommends leaving the settings at 50 (default) to define the “center” area for the bar code.</p> <p>Configurable parameters:</p> <ul style="list-style-type: none"> <li>• Window top</li> <li>• Window bottom</li> <li>• Window left</li> <li>• Window Right</li> </ul>	Disabled
Decode Security		
Poor Quality 1D Reading	<p>Enable this setting when scanning damaged or badly printed 1-D bar codes to improve bar code read success.</p>	Disabled
Video Mode	<p>Use this setting to specify whether normal or inverse decoding for linear symbologies is enabled during the execution of Decode. By default normal video is enabled. Options include:</p> <ul style="list-style-type: none"> <li>• Normal</li> <li>• Inverse</li> <li>• Normal and Inverse</li> </ul>	Normal
DPM Mode	<p>use this setting when scanning Direct Part Marking (DPM) bar codes that are etched or imprinted directly into the surfaces of the materials including metal and plastic.</p> <p>Options include:</p> <ul style="list-style-type: none"> <li>• No DPM optimization</li> <li>• Dotpeen DPM decoding</li> <li>• Reflective DPM decoding</li> </ul>	No DPM optimization

Setting	Description	Default
Region of Interest	<p>Set the ROI for decoding. Options include:</p> <ul style="list-style-type: none"> <li>• <b>Disable</b> ROI is disabled and the entire original image is sent to the decoder.</li> <li>• <b>Standard</b> Use the aimer position to weight activity. Activity calculated on the row and the column in the middle of each cell. The ROI window may not include the aimer.</li> <li>• <b>Standard, aimer centered</b> Activity calculated on the row and the column in the middle of each cell. The ROI window will always include the aimer.</li> <li>• <b>DPM, aimer centered</b> Activity calculated on 4 rows and 2 columns in each cell. The ROI window will always include the aimer.</li> <li>• <b>Kiosk/presentation application</b> Ignore aimer position, no weight activity. Activity calculated on the row and the column in the middle of each cell. The ROI window may not include the aimer.</li> <li>• <b>Learning Engine</b> When selected, the computer will receive continuous updates to improve the decoder software based on your specific environment. The Staging Hub Agent must also be enabled.</li> </ul>	Disabled

## Imager Settings

You should not need to modify the Imager Settings. The **Override Recommended Values** setting is disabled by default. The recommended Imager Settings are designed to work in a wide range of environments and should only be modified if you have an advanced understanding of imagers.

## Trigger Settings

Use the Trigger Settings to configure how the scan buttons work.

### Trigger Settings

Setting	Description	Default
Enable Scan Trigger	Enable or Disable activating the imager by pressing the side scan buttons or the virtual Scan button in the Scan Demo app.	Enabled
Scan delay	Set the minimum amount of time in seconds before the scanner can read another bar code.	0
Decode Timeout	Set the number of seconds before the scanner automatically turns off if the scan button is pressed and nothing has successfully decoded.	20
Trigger Scan Mode	<p>Set read behavior on scan button press. Options available:</p> <ul style="list-style-type: none"> <li>• One Shot</li> <li>• Continuous</li> <li>• Read on release</li> <li>• Read on second trigger press</li> </ul>	One Shot

Setting	Description	Default
Same symbol timeout	Set the minimum buffer time in seconds before the scanner reads the same bar code. This can be adjusted to prevent inadvertent scans of the same bar code if the code is left in the scan field longer than the Decode Timeout limit. The default same symbol timeout is 1000 seconds.	Disabled

## Notification Settings

Use the Notification Settings to configure how your computer responds when you scan a bar code.

### Notification Settings

Setting	Description	Default
Good Read Notification	Enables or disables a good read notification. The notification consists of a green blink of the Scan Status LED, a short beep, and an optional short vibration.	Enabled
Bad Read Notification	Enables or disables notification of a failed scan. The notification consists of a red blink of the Scan Status LED, an error beep, and an optional short vibration.	Disabled
Vibrate On Notification	Enables or disables whether the computer vibrates when there is a good or bad read.	Disabled

## Add a Scan Setting Profile

To create a scan setting profile for a custom app on the computer:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Honeywell Settings** > **Scanning** > **Internal Scanner**.
3. Tap  in the upper right corner of the app screen.
4. Take one of the following actions:
  - Tap the profile name field, and then add a new name.

OR

  - Tap the **select an application** option, and then choose an app from the list.

The new profile appears on the Internal Scanner profile list. You can now select and modify the scan settings for the new profile.

## Delete a Scan Setting Profile

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Honeywell Settings** > **Scanning** > **Internal Scanner**.

3. Tap and hold the profile you want to delete.
4. Select **Delete**, then select **OK**.

## About the Optional Digital Scan Button

By default, the imager is enabled for scanning with the left, middle and right scan buttons configured to trigger the imager. If your application environment requires use of an on-screen scan button, enable the Digital Scan Button feature in the Settings app. Once enabled, you can then modify the appearance of the on-screen Scan button and select the apps the button appears in.

## Enable and Configure the Digital Scan Button

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Honeywell Settings** > **Digital Scan Button**.
3. Tap **Enable Digital Scan Button** to turn the feature on. A preview of the button appears at the bottom of the screen.
4. Configure the button appearance. As you adjust the settings, the preview button updates.
  - Tap **Select Button Size**, and then choose Small, Medium or Large.
  - Tap **Select Button Color** and then choose from seven color options. Default color is black. Tap a dot to select the color, and then select **OK** to confirm.
  - Use the slider under **Transparency Level** to adjust how transparent the button appears on the application screen.
5. Drag the preview button to the location where you want it to appear on the screen. Once you have positioned the button, tap the **Set Button Location** toggle button to lock it into position.
6. Tap **Choose Application**.
7. Check the box next to all the applications where you want the digital scan button to be available.
8. Select **OK**.
9. Tap **Back** to return to the Settings screen.

The digital scan button appears on the screen when you open any of the apps you selected during the button setup. Tap and hold the button to activate the imager and scan a bar code.

# Scan Bar Codes

By default, the computer imager is enabled for scanning. It supports omni-directional (360°) bar code scanning and an aiming beam is provided to help assist with targeting bar codes.

Before you start scanning bar codes, go into **Settings > Honeywell Settings > Scanning > Internal Scanner** and modify the scan profile to enable only the bar code symbologies that you need. By reducing the active symbology list, you can increase scan speed.

1. Point the scanner window at the bar code. For optimum performance, avoid reflections by scanning the bar code at a slight angle.
2. Press and hold any Scan button.
3. Center the aiming beam over the bar code. Make sure the entire bar code is inside of the illumination frame.



4. Release the Scan button when the computer beeps, and the Scan Status LED briefly turns on. The bar code information is entered into the application in use.

**Note:** *Not all bar code symbologies are enabled by default. If a bar code does not scan, the correct symbology may not be enabled.*

## About Scanning Configuration Bar Codes

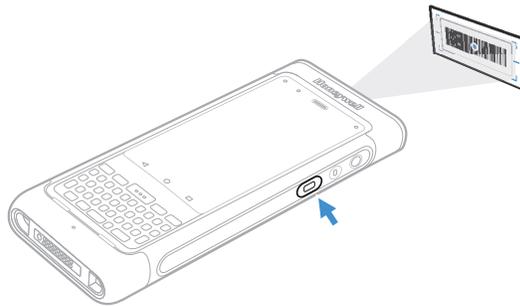
After completing the out-of-box set up process, Provisioning mode is automatically turned Off. Scanning a bar code to install applications, certificates, configuration files, and licenses on the computer is restricted unless you enable Provisioning mode in the Settings app.

To learn more [About Provisioning Mode](#) see [page 88](#).

# Use the Scan Demo App

Use the Scan Demo app to read bar codes, or to test your symbology decode settings.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Demos**.
3. Swipe left or right on the screen until **Scan Demo** appears under the turntable. Tap the center of the box image to open the app.
4. Point the scanner window at the bar code.
5. Press and hold any **Scan** button or tap and hold the on-screen Scan button.
6. Center the aiming beam over the bar code. Make sure the entire bar code is inside of the illumination frame.
7. Release the Scan button when the computer beeps, and the Scan Status LED briefly turns On. Bar code information appears on the screen.



**Note:** In the Scan Demo app, not all bar code symbologies are enabled by default. If a bar code does not scan, the correct symbology may not be enabled.

## Change the Scan Demo Symbology Settings

1. In the Scan Demo app, tap **⋮** in the upper right corner of the screen.
2. Select **Symbology Settings**.
3. Modify the symbology parameters.
  - Tap the check box next to a symbology name to enable (check mark) or disable (no check mark) decoding for that symbology.
  - Tap the symbology name to view and modify additional configuration parameters for the symbology selected.
4. Tap **Back** to return to the Scan Demo app.

## Use the Imager as a Flashlight

To use the imager as a flashlight.

1. Open Quick Settings (see page [38](#)).
2. Tap the **Flashlight** icon to turn the flashlight on.
3. Select the icon again to turn the flashlight off.



You can use the phone feature to make and receive phone calls as well as transmit data through wireless wide-area networks (WWANs).

**Note:** *Phone features are only supported on CN80 WWAN models (CN80L1N).*

## About the Phone

Phone features on the computer include a speaker and a microphone. You can also use a Bluetooth headset or hands-free kit.

On CN80 WWAN models the phone feature is enabled by default and supports all cellular radio access technologies (2G, 3G, etc.) for voice and data connections around the globe. These features are certified by PTCRB, GCF, and all major US carriers.

CN80 WWAN mobile computers also come equipped with two micro-SIM card slots. You might use the dual SIM feature if you require two phone numbers on UMTS networks and have occasions when you want to use a different carrier or cellular plan for travel.

After you turn On the phone and activate service with your wireless carrier, you can customize the phone features and network settings in the Wireless & Networks section of the Settings app.

**Note:** *Both WWAN radios support Network Information and Time Zone (NITZ) messages to automatically set the system time.*

# Add or Switch Between Network Carriers

The SDR radio and dual SIM card slots in the CN80 WWAN model make it easy for you to add carriers and switch between them as needed.

Use the Carrier Selection app to quickly change your WWAN radio network carrier.

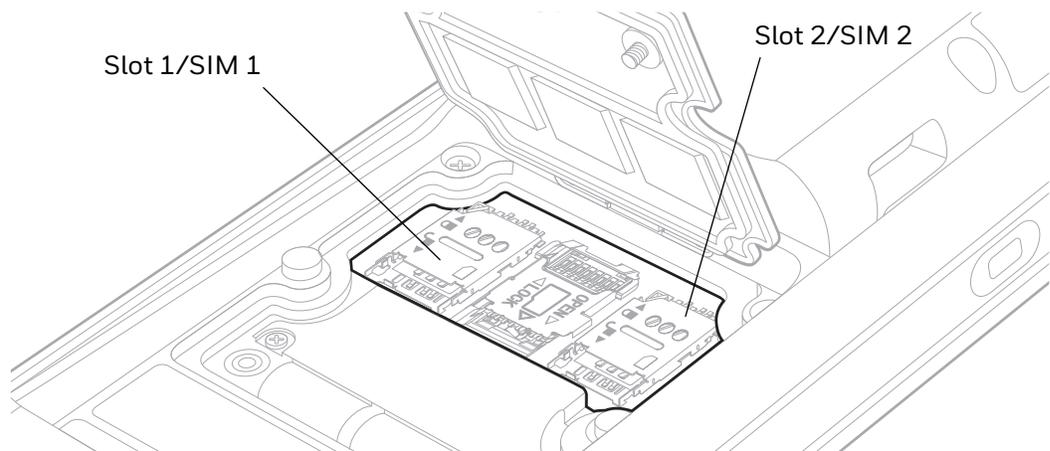
1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Carrier Selection** .
3. Select a carrier from the list, and then tap **Apply Settings**.
  - If the update is successful, the Carrier Selection screen appears and displays the updated carrier information.
  - If the update is unsuccessful, a message appears. Tap **OK** to return to the Carrier Selection screen.

## Select a SIM Card Slot

CN80 WWAN mobile computers (model CN80L1N) come equipped with two SIM card slots. The dual slots give you the flexibility to install two micro-SIM cards in the computer so that you can then activate and switch between them whenever you choose. Switching is easy via the SIM selection app.

To switch between SIM Card slots:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **SIM Selection** .
3. Under *Select New Config*, tap the drop down arrow ▼ next to SIM slot.
4. Select either **Slot 1** for SIM 1 or **Slot 2** for SIM 2.



5. Tap the drop down arrow ▼ next to Carrier Config.

6. Select a cellular carrier.
7. Tap **Apply** and then **OK** to verify the change.
8. Tap **OK again** when the “Settings are saved” message appears. Under *Current Config* the active SIM slot appears with the carrier setting you selected.

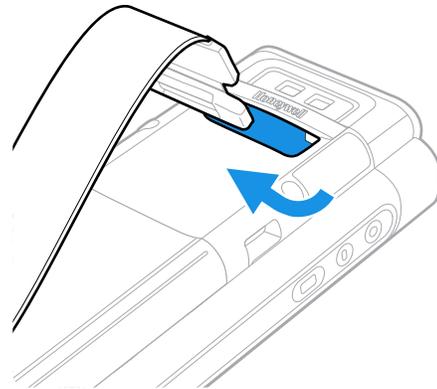
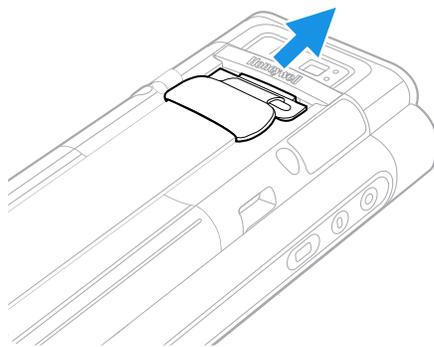
## Activate the Phone

You use a SIM card to activate the phone on your CN80 WWAN model computer (CN80L1N). You can purchase the micro SIM card from your network provider. Dolphin CN80 WWAN models includes two SIM card slots (SIM 1 and SIM 2) for multiple network provider flexibility.

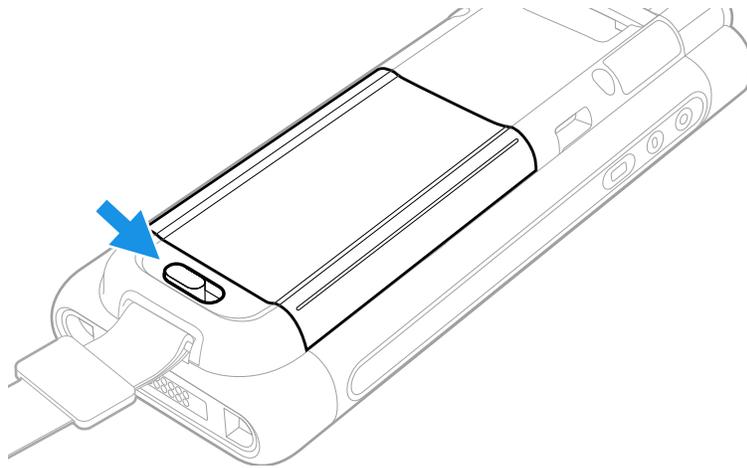


**Warning:** If you have a CN80 NI/CN80G model certified for use in hazardous locations, read [Important Information](#), page 8.

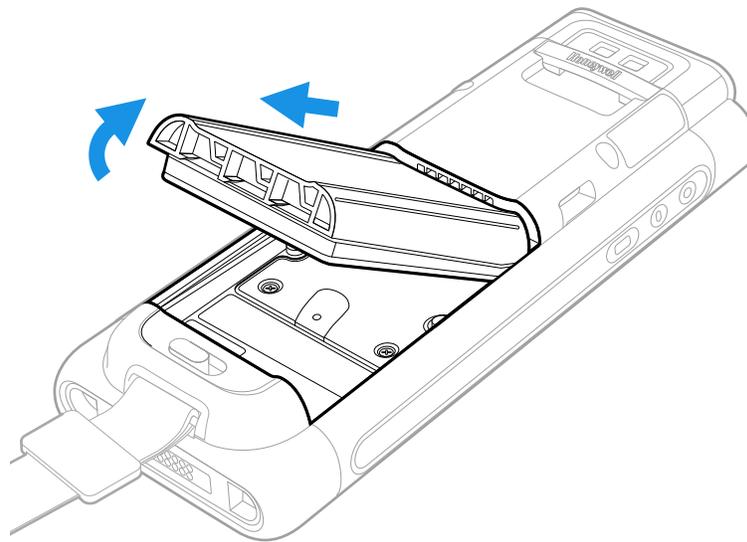
1. Select a network carrier. To learn how, see [Add or Switch Between Network Carriers](#) on page 58.
2. Activate and configure the SIM slot you are installing the card in, see [Select a SIM Card Slot](#).
3. Press and hold the **Power** button until the options menu appears.
4. Tap **Power Off** and then **OK** to verify.
5. Release one end of the hand strap.



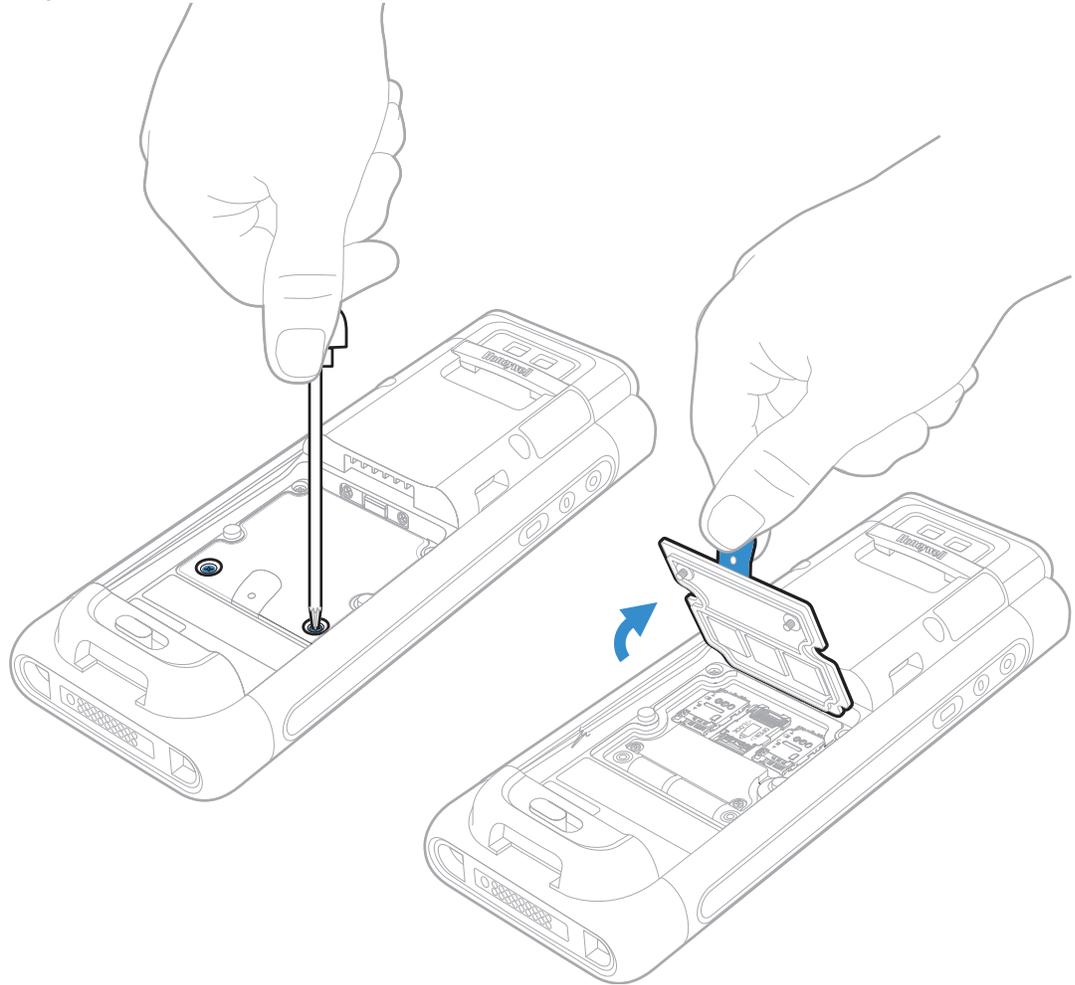
6. Slide the battery latch to the right.



7. Lift up on the edge of the battery and remove it from the computer

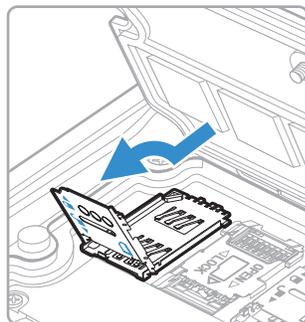


- Loosen the screws securing the card access door closed. Use the tab to lift the edge of the door.

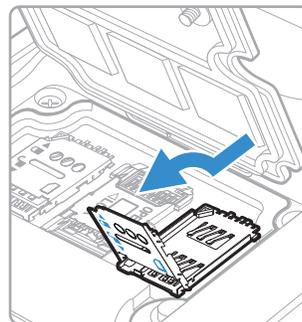


- Press down gently and slide the card holder away from the open access door. Lift the edge of the holder up.

When using a UICC card for NFC Secure Element NFC link encryption, install the card in SIM slot 1.

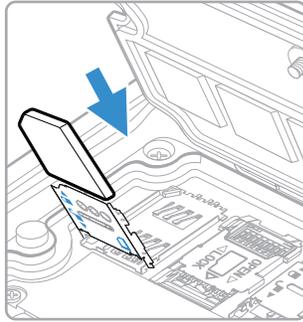


**SIM 1**

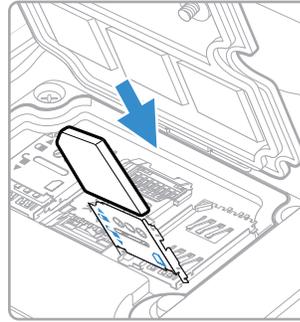


**SIM 2**

10. Insert the microSD card into the card holder with the contacts facing out.



**SIM 1**

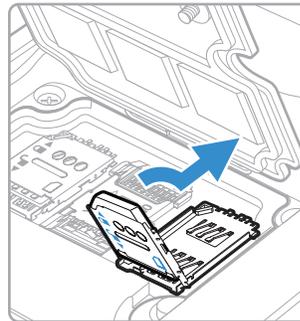


**SIM 2**

11. Close the holder with the card inserted. Press down gently on the card holder and slide it into the locked position.



**SIM 1**



**SIM 2**

12. Close the card access door and tighten the screws.

13. Install the battery and apply pressure to the edge closest to the battery latch.

14. Install the hand strap.

15. Press the **Power** button to turn On the computer.

## Make a Phone Call

Once the phone is activated, you can make a phone call.

1. Tap  in the favorites tray or press the Phone key  to open the phone app.
2. Use one of the methods below to enter the telephone number you want to call.
  - Press the number keys on the keypad.
  - Tap  and use the on-screen dialer.
  - Select a person on your saved contact list .
  - Select a favorite on your speed dial list .

- Select a number from the recent calls list .
3. Tap call .
  4. To end the call, tap  on the screen or keypad.

## Answer the Phone

When you receive a phone call, the Incoming Call screen opens. If the caller telephone number is available, it appears on the screen. Depending on your calling plan, you may also see a Caller ID information. All incoming calls are recorded in the Call log. If you miss a call, you receive a notification.

1. On the Incoming Call screen, tap and hold the white call icon.
2. Three icons appear:
  - To answer the call, drag the white call icon to .
  - You can also press the Phone key  on the keypad to answer the call.
  - To send the caller directly to voice mail, drag the icon to .
  - To send a text message back to the caller instead of answering, drag the icon to .

## Switch Apps During a Phone Call

You can multitask while a phone call is in progress. For example, you can use the Calendar app to check your schedule during a call.

**Note:** Depending on your WWAN connection and carrier, apps that need a data connection may be unable to access online data while the phone call is in progress. If simultaneous phone calls and data connections are not possible due to provider limitations, voice calls receive priority. Check with your provider for more information.

1. During a phone call the screen goes dark. Take the phone away from your ear to wake the screen. Tap the **Home** button.
2. Select another app (e.g., Calendar, Contacts). The phone icon appears in the status bar at the top of the screen while the call is connected.
3. To return to the call screen, swipe down from the top of the screen and select ongoing call notification or select **Hang up** if you want to end the call.

# Make an Emergency Phone Call

You can use the phone to make an emergency phone call even if the SIM card is missing from your phone. The phone shows no service but the call still goes through if you dial certain emergency numbers (e.g., 112, 911, 000, 08, 118, 119, and 999).

# Configure Phone Settings

You can customize settings for the phone, including the ringtone, voicemail options, keypad tones, Internet call settings, and other options.

1. Open the phone app .
2. Tap  next to the microphone icon at the top of the screen.
3. Select **Settings**. The Call settings menu appears.
4. Change phone settings as necessary.

**Note:** Available settings vary depending on your cellular carrier and phone plan.

Use this chapter to learn how to take pictures and record videos with the color camera.

## About the Color Camera

The CN80 comes equipped with a 13-megapixel color camera, 4K video with image stabilization, and advanced software features for enhanced exposure control for taking pictures and videos. The camera lens and flash are located on the back of the computer.

Use the Photos app  to view photos and videos stored on the CN80.

By default the photos and videos captured with the Camera app are saved on the computer under Internal shared storage\DCIM\Camera.

## How to Zoom

The camera zoom is controlled using a pinching motion on the touch screen. Place two fingers on the screen at the same time, and then:

- spread them apart to zoom in (enlarge and object).
- pinch them together to zoom out.

## Take a Photo

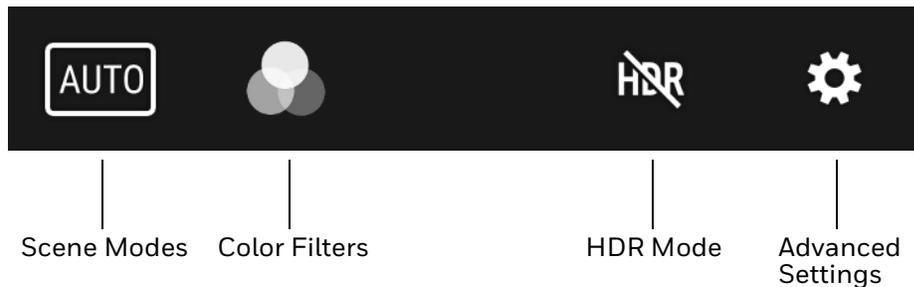
1. Tap the **Snapdragon™ Camera** icon  in the favorites tray on the Home screen.
2. Using the screen as a viewfinder, move the computer until you see the image you want to capture. The camera lens is located on the back of the computer.

3. The camera automatically adjusts the focus but you can tap the screen to modify the focal point. By default, the camera senses the lighting in the environment and turns the flash on, if needed.
4. Tap  to take a photo.
  - To view the picture, tap the preview near the bottom of the screen.
  - To return to the Camera app, tap the **Back** navigation button.

## Change Camera Settings

You can change the camera settings for best results when taking pictures. The camera settings are adjustable from within the Snapdragon™ Camera app.

1. Open the **Snapdragon Camera** app .
2. At the top of the screen, select any of the following to adjust the settings.



- **Scene Modes**  
Use preset setting profiles for best picture quality. Options include: Automatic, High Dynamic Range (HDR), OptiZoom, Portrait, Landscape, Sports
- **Color Filters**  
Stylize your pictures by applying a filter. Options include: None, Mono, Sepia, Negative, Solarize, Posterize, Aqua, Emboss, Sketch, Neon
- **HDR Mode**  
Tap to quickly toggle HDR mode On or Off. When enabled, the computer automatically captures multiple photos and combines them into one photo creating the best quality image possible.
- **Advanced Settings**  
Manually set advanced features. Options include: Flash, GPS location, Picture size, Picture quality, Countdown timer, Storage, Continuous shot, Face detection, ISO, Exposure, White balance, Chroma flash, Readeye reduction, and Shutter sound.

# Record a Video

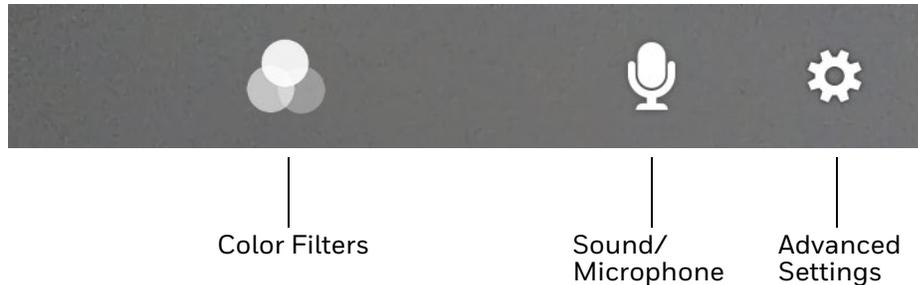
This section explains how to record video with the camera in the computer.

1. Tap the **Snapdragon Camera** icon  in the favorites tray.
2. Tap mode selection  in the bottom right corner of the app.
3. Tap  to select video.
4. Tap  to begin recording video. To zoom in or out, pinch or spread your fingers apart.
5. When you are done recording, tap .

# Change Video Settings

You can change the video settings for best results when recording video.

1. Open the **Snapdragon Camera** app .
2. Tap  to select video.
3. At the top of the screen, select any of the following to adjust the settings.



- **Color Filter**  
Stylize your video by applying a filter. Options include: None, Mono, Sepia, Negative, Solarize, Posterize, Aqua, Emboss, Sketch, Neon.
- **Sound/Microphone**  
Tap to quickly toggle sound recording On or Off.
- **Advanced Settings**  
Manually set advanced features. Options include: Flash, Video quality, Video duration, GPS location, Storage, White balance and Image stabilization.

# Use the Camera as a Flashlight

To use the camera as a flashlight, open quick settings and tap the Flashlight icon to turn the flashlight on. Select the icon again to turn the flashlight off.



# CONFIGURE THE COMPUTER

Use this chapter to learn about the available methods for configuring your mobile computer. You can also use this chapter to learn how to configure network communications and wireless security.

## How to Configure the Computer

You can configure many parameters on the computer such as the bar code symbologies the integrated scanner decodes, or the network settings. The values you set for these parameters determine how the computer operates.

You configure the computer using the Settings app.

## Start the Settings App

The Settings app is available from the all apps menu and the notification panel.

- Swipe up from the bottom of the Home screen to access all apps, and then tap Settings .

OR

- Swipe down from the top of the Home screen, and then select  in the status bar.

**Note:** To view a simplified settings menu without descriptions, swipe right from the left edge of the Settings screen.

## About the Structure of the Settings App

Use this section to learn about the structure of the Settings app so you can find parameters quickly.

**Note:** The Settings app varies by computer model and OS version. Your computer may not include all the features outlined in this section.

When you open the Setting app, suggestions appear at the top of the list.

- Tap **▼** or **▲** to expand or collapse the suggestion list.
- Tap a suggestion to open the settings screen or app relevant to the suggestion.
- Tap the **⋮**, and then **Remove** to dismiss the suggestion.

### Network & Internet

Setting	Description
Wi-Fi	<ul style="list-style-type: none"> <li>• Turn WLAN radio On or Off.</li> <li>• Lists available Wi-Fi networks in range and the connection status when the radio is turned On.</li> <li>• Add a network Wi-Fi connection.</li> </ul>
Mobile Network	<p>Modify mobile network settings, including enabling data access and roaming over mobile networks, selecting access points and network operations, or selecting only 2G networks (to save battery life).</p> <ul style="list-style-type: none"> <li>• Turn Mobile data On or Off</li> <li>• Turn Roaming On or Off</li> <li>• View Data use information <ul style="list-style-type: none"> <li>• Access advanced options, including: <ul style="list-style-type: none"> <li>• 4G LTE Mode on/Off setting</li> <li>• Preferred network settings</li> <li>• CDMA roaming settings and subscription settings (i.e. RUIIM/SIM, NV)</li> <li>• Access point name and selection</li> <li>• Network selection settings</li> </ul> </li> </ul> </li> </ul>
Data usage	<ul style="list-style-type: none"> <li>• Manage mobile/cellular data usage.</li> <li>• View mobile or Wi-Fi data use statistics for the current data use cycle.</li> <li>• Turn the Data saver feature On or Off.</li> <li>• Turn network restrictions for metered WLAN networks On or Off.</li> </ul>
Hotspot & tethering	<ul style="list-style-type: none"> <li>• Enable or disable USB tethering or Bluetooth tethering for sharing mobile data connections.</li> <li>• Enable or Disable using the computer as a portable Wi-Fi hotspot.</li> <li>• Configure Wi-Fi hotspot.</li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>• Turn Ethernet On or Off.</li> <li>• View last Ethernet connection information.</li> </ul>
Mobile plan	Provides information on your cell phone plan.
VPN	Set the password parameters for a Virtual Private Network (VPN) connection.
Airplane Mode	Turn Airplane mode On or Off.

### Connected Devices

In the Settings app, select Connected devices to view current connected devices and to access the following settings.

Setting	Description
Pair a new device	<ul style="list-style-type: none"> <li>• Connect to a Bluetooth Device</li> <li>• Lists Bluetooth enabled devices in range when the radio is turned On</li> <li>• View and rename the computer</li> <li>• View the computer Bluetooth address</li> </ul>
Previously connected devices	View previously connected devices.
Connection Preferences	
Bluetooth	<ul style="list-style-type: none"> <li>• Turn the Bluetooth radio On or Off</li> <li>• Lists Bluetooth enabled devices in range when the radio is turned On</li> <li>• Connect to a Bluetooth Device</li> <li>• View and rename the computer</li> <li>• View the computer Bluetooth address</li> </ul>
Cast	Set up a Cast connection. Cast (project) audio and screen content to a secondary device such as a television.
NFC	Turn Near Field Communication (NFC) On or Off. When the NFC radio is enabled, data exchanges are allowed when the computer touches another NFC enabled device.
Android Beam	Turn the Android Beam feature On or Off. When NFC is enabled, this feature is accessible. You can beam app content to another NFC capable device by holding the devices close together. The app determines what content is transmitted to the other device.
Printing	Set up a printer connection with the CN80. Connection options include cloud print services, Wi-Fi printing via a router, or printing via NFC.
Received files	View statistics and received files.
USB	Configure USB communication.
Chromebook	Set up connection from the CN80 to a Chromebook.

## Apps & Notifications

Setting	Description
App Info	View a list of all apps installed on the computer and system services running.
Notifications	<ul style="list-style-type: none"> <li>• Manage notifications (i.e., turn notifications On/Off)</li> <li>• Set rules for notifications on the screen lock</li> <li>• Turn notification dots On/Off</li> <li>• Turn LED blink notification On/Off</li> <li>• Set the default sound for all notifications.</li> </ul>
App permissions	View and manage individual app permissions.
Advanced	
Default apps	View and manage default app use.
Emergency Alerts	Manage Emergency alert notifications.
Special app access	Manage apps with special unrestricted access.

## Battery

**Note:** Some settings in previous ODS versions can be found in Display.

Setting	Description
Battery	View current battery charge or charging status.
Battery saver	turn the Battery saver feature On or Off and set when the feature automatically activates. <ul style="list-style-type: none"><li>• Never</li><li>• When the battery charge is at 5%</li><li>• When the batter charge is at 15%</li></ul>
Battery manager	Turn the Battery manager On or Off.
Battery percentage	Set to show or do not show battery percentage in status bar.
Last full charge	View time since the battery was fully charged.
Screen usage since last full charge	View amount of time when the screen was used since the battery was fully charged.

## Display

Setting	Description
Brightness level	Set the Brightness level manually if Adaptive brightness feature is turned Off.
Night light	Activate the Night light feature to adjust the screen to tint to a light amber for easier viewing and reading in dim light or for the hours you use the device before going to sleep. Set the features to stay on or define a schedule to automatically turn the feature On/Off. You can manually adjust the intensity of the amber hue once the feature is activated.
Adaptive brightness	Set how the screen in sleep mode responds when new notifications are received (i.e., wake or do not wake)
Wallpaper	Set the wallpaper.
Advanced	
Sleep	Set the inactivity time limit before the unit automatically turns off the screen to save battery power (seconds or minutes)
Keypad backlight	Set the inactivity time limit before the unit automatically turns off the screen to save battery power (seconds or minutes)
Auto-rotate screen	Set the screen to switch from portrait to landscape when the unit is rotated. When Off, the screen does not automatically rotate.
Font size	Set the default on-screen text size.
Display size	Set the default size of items on your screen.
Ambient display	Set how the screen in sleep mode responds when new notifications are received (i.e., wake or do not wake)
Device theme	Set the theme of the device. Options are: Automatic (based on wallpaper), Light, and Dark.

## Sound

In the Settings app, select Sound to modify the audio settings.

## Storage

In the Settings app, select Storage to view statistics on available and used storage space on the device and on any portable storage cards installed.

## Security & Location

In the Settings app, select Security & Location to view the latest Security scan results, security updates, and phone encryption status. You can also access additional settings related to device security.

Setting	Description
Screen Lock	Activate and configure a screen lock (i.e., None, Swipe, Pattern, Pin, and Password)
Lock screen preferences	Configure the following lock screen parameters: <ul style="list-style-type: none"><li>• Select notifications you want shown on the lock screen.</li><li>• Enable or disable adding users from the lock screen.</li><li>• Customize the lock screen message.</li></ul>
Smart Lock	Define safe conditions or locations where your phone will stay unlocked (i.e., On-body, Trusted places, Trusted devices, and Voice match)
Location	<ul style="list-style-type: none"><li>• Turn location services (Google and GPS satellite data) On or Off.</li><li>• View and manage app-level location service permissions.</li><li>• Set location mode accuracy and view location request history.</li><li>• Turn Wi-Fi and/or Bluetooth scanning On or Off. When enabled, system apps and services are allowed to detect W-Fi networks or Bluetooth devices at any time to improve location services.</li></ul>
Show passwords	Enable or disable showing characters briefly as you type.
Device admin apps	Manage administrator privileges.
SIM card lock	Set up SIM card lock or edit an existing lock.
Advanced	
Encryption & credentials	View encryption status and manage trusted credentials (i.e., view, install, clear, and edit)
Trusted agents	View and enable/disable trusted agent apps (like Smart Lock by Google) on the device. Trusted agents by pass security based on set parameters.
Screen pinning	Enable or disable the screen pinning feature. When enabled, you can pin the device screen to a recently used app where it stays until you unpin the app via the security method chosen.
Apps with usage access	View and manage apps with usage permission.

## Accounts (Previously Users & Accounts)

In the Settings app, select Users & Accounts to access the settings below.

**Note:** Some settings in previous OS versions can be found in System.

Setting	Description
Add account	Select to add and manage Corporate or Email account on the computer.
Automatically sync data	Turn auto-sync On or Off for accounts. Turning the feature On allows apps to refresh data automatically.

## Honeywell Settings

In the Settings app, select Honeywell Settings to access the settings below.

Setting	Description
Battery LED	Configures the battery LED behavior. To learn more see, <a href="#">Change the Battery Status LED Behavior</a> , page 13
Battery Monitor	View the battery charge status and battery information such as overall battery health, internal temperature, and serial number.
Battery Optimizer	View battery status and app usage information. Create and enable or disable a battery optimization profile that implements a group of settings to conserve power.  Options include: <ul style="list-style-type: none"><li>• None When selected, no battery optimization profile is active.</li><li>• Energy Saver This pre-defined profile implements UI settings that optimize battery conservation.</li><li>• Cold Storage This pre-defined profile implements UI settings that optimize battery conservation in cold storage environments.</li><li>• Add a Custom Profile tap to create a custom battery profile that balances your application needs with energy saving settings. You can turn location services On or Off, configure sound and vibration options, modify brightness and timeout display options, turn UI transition animations On or Off, and background services On or Off.</li></ul>
BLE Beacon	Turn the computer's Bluetooth Low Energy (BLE) beacon On or Off. When enabled the computer emits a repetitive signal that can be used for location and proximity tracking and transferring short bursts of very small amounts of data. You can configure the beacon to turn Off when the screen turns off and the set the advertising interval (i.e. Fast, Medium, Slow) of the beacon.
Digital Scan Button	Enable and configure the optional digital scan button. To learn more, see <a href="#">Enable and Configure the Digital Scan Button</a> , page 52.
Honeywell Power	Enable or disable Unattended Mode.

Setting	Description
HXLogger	<p>The HXLogger is an advanced diagnostic log service that provides a basic log service, plug-ins for modified log services, and a log manager.</p> <ul style="list-style-type: none"> <li>• Tap <b>HXLogger</b> to turn the basic log service On or Off. When enabled, the service records app and system diagnostic troubleshooting information into four basic log files: main log file, radio log, event log, and kernel log.</li> <li>• Tap <b>PlugIn</b> to view and enable additional log services and custom plugins</li> <li>• Tap <b>Manager</b> to change the default log path, delete logs, or upload logs for technical support troubleshooting.</li> </ul>
Key Remap	Change (remap) a button or key function. To learn more, see <a href="#">Remap a Button or Key</a> on page 37.
Key WakeUp	Set the buttons you want to use to wake the computer from sleep mode. Options include: PTT (push-to-talk), Left Scan, Middle Scan, Right Scan, Volume Up, Volume Down. By default the Left, Middle and Right Scan buttons are enabled for wake up.
Provisioning Mode	Enable or disable unrestricted installation of applications, certificates, configuration files, and licenses. Provisioning mode is turned Off by default. To learn more <a href="#">About Provisioning Mode</a> , see page 88.
Scanning	Configure the computer imager. To learn more, see <a href="#">Change the Scanner Settings</a> on page 46.
Smart sensors	Configures the integrated motion detection sensors for advanced power management. Options include: Keep awake on motion, Wake on motion, Face down suspend.
Staging Hub Agent	Use this agent and settings to connect the computer to the Honeywell Staging Hub Foundation software platform; a centralized software platform IT integrators and administrators can use as a solution for managing, monitoring and deploying Honeywell devices in a connected workspace environment.
Touch Screen Profiles	Optimize screen interactions by selecting a touch screen profile designed specifically for your use case. To learn more, see <a href="#">page 18</a> .
Vdock Config	Configure the computer to work with optional accessories. Turn the VdockConfig setting On when using the computer with the optional vehicle dock. Turn the feature Off when using the computer with the optional scan handle.
Web Applications	Enables access for the Honeywell Mobility SDK for Web apps and lets you set a port.
ZIGBEE	Turn Zigbee radio On or Off for Zigbee network connections.
WAAS/SBAS Settings	Turn WAAS/SBAS on or Off. When WAAS/SBAS is enabled. GPS accuracy is improved by using WAAS/SBAS satellites. The computer will need to reboot (restart) after turning this feature On or Off.

## Accessibility

In the Settings app, select Accessibility to access screen readers, display settings, interaction controls, and audio & on-screen text features to improve accessibility levels.

Setting	Description
Select to Speak	When turned on, you can tap specific items on the screen to hear them read aloud.
TalkBack	When turned on, the feature provides spoken feedback so you can use the computer without always looking at the screen. TalkBack describes your actions and tells you about alerts and notifications
Text-to-speech output (TTS)	Select and configure the preferred TTS engine, set language, speech rate and pitch of synthesized voice.
Display	Configure display features that may aid visual accessibility levels. <ul style="list-style-type: none"><li>• Adjust font size</li><li>• Display size</li><li>• Turn the Magnification feature On/Off</li><li>• Set Color correction</li><li>• Turn Color inversion On/Off</li><li>• Turn Large mouse pointer On/Off</li><li>• Turn Remove Animations On/Off</li></ul>
Interaction Controls	Set interaction controls that may aid physical accessibility levels. <ul style="list-style-type: none"><li>• Accessibility Menu provides large on-screen menus.</li><li>• Configure Switch Access</li><li>• You can use a switch or keyboard to control your device</li><li>• Set the Dwell timing (Click after pointer stops moving) delay</li><li>• Turn the Power button ends call feature On/Off</li><li>• Turn Auto-rotate screen On/Off</li><li>• Adjust the Touch &amp; hold delay</li><li>• Turn Vibration On or Off</li></ul>
Audio & on-screen text	Turn Mono audio On/Off and Captions On/Off
High contrast text	Turn High contrast text On/Off

## Google

In the Settings app, select Google to set up and manage your Google accounts and services.

## System

Setting	Description
About phone	View device specific information including the model number, phone number, operating system version, software patch version, radio versions, build number, and legal information.

Setting	Description
Language & input	<ul style="list-style-type: none"> <li>Set the Device Language</li> <li>Set and manage the Virtual and Physical keyboard input methods</li> <li>Configure auto-typing features such as capitalization, punctuation, spell check, and the personal directory</li> <li>Set text-to-speech output</li> <li>Adjust the pointer speed</li> </ul>
Gestures	<ul style="list-style-type: none"> <li>Turn Jump to Camera On/Off</li> <li>Turn Swipe Up on Home Button On/Off</li> <li>Set the Prevent ringing option. Options: Vibrate, Mute, Do Nothing</li> </ul>
Date & time	Configure all date and time settings
Advanced	
Backup	Turn the Google Drive backup feature On or Off. When enabled, phone data (e.g., apps, apps data, call history, contacts, device settings, SMS, Wi-Fi passwords and permissions) is automatically backed up to the Google Drive.
Reset options	<p>Select from the following reset options:</p> <ul style="list-style-type: none"> <li>Reset Wi-Fi, Mobile &amp; Bluetooth Use to reset all network settings, including Wi-Fi, Mobile data, and Bluetooth.</li> <li>Reset preferences Use to reset app preference back to defaults: apps you disabled, notification changes, default app actions set, background data restrictions for apps, and permission restrictions.</li> <li>Enterprise data reset To learn more, see <a href="#">Enterprise Data Reset the Computer</a> on page 94</li> <li>Erase all data (factory reset) To learn more, see <a href="#">Full Factory Reset the Computer</a> on page 95</li> </ul>
Multiple Users	<ul style="list-style-type: none"> <li>Modify the owner profile name and add profiles for other people who use the computer.</li> <li>Activate a different user profile.</li> <li>Enable or disable allowing users to be added from the lock screen.</li> </ul>
Developer options	Enable developer-specific options such as USB debugging and SD card protection. This option only appears under System settings if you enable the feature. To learn more, see <a href="#">Unlock Developer Options</a> on page 43.

## About Network Communications

You can easily add the mobile computer to your wireless or wired data collection network. Connect the CN80 your computer using:

- 802.11 a/b/g/n/ac radio communications.
- Ethernet communications.

- Bluetooth communications.
- USB and serial communications.

## Connect to a Wi-Fi Network

The computer contains an 802.11 a/b/g/n/ac radio to transfer data using wireless communications. Before you connect to a Wi-Fi network, you need to know about your network security protocol and its required credentials.

By default, the 802.11 radio is disabled.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings  > **Network & Internet** > **Wi-Fi**.
3. Tap **Off**  to toggle Wi-Fi radio **On** . A list of discovered networks appears.
4. On the list, tap a network name to initiate a connection.

To add a network if it does not appear on the list:

- a. Navigate to the end of the discovered network list, and then tap **Add network**.
  - b. Type the Wi-Fi network name (SSID).
  - c. Choose a security protocol and add any required information.
  - d. Tap **Save**.
5. Enter any required information if the network is secured (e.g., password, key or certificate name).
  6. Tap **Connect**.

Once you connect to a saved Wi-Fi network:

- Tap the network name on the list to view details (e.g., status, signal strength, speed, frequency, security type). Select  to close details screen.
- The computer automatically connects to the same network when the network is in range and the WLAN radio is turned On.
- To remove a network from your saved list, tap and hold the network name and select **Forget network**. You can do this for networks you no longer use.
- To modify a network from your saved list, tap and hold the network name and select **Modify network**. You can do this if you changed your network password.
- To view a list of only your saved networks, tap , and then select **Saved networks**.

## Configure Proxy Settings for a Wi-Fi Network

If you need to connect to network resources through a proxy server, you can configure settings for the proxy server for each Wi-Fi network you add. By default, the Wi-Fi networks you add are not configured to connect through a proxy server.

**Note:** Proxy settings apply only to the Wi-Fi network you modify. You must change proxy settings for each network requiring a proxy server.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings  > **Network & Internet** > **Wi-Fi**. The list of available Wi-Fi networks appears.
3. Tap and hold the name of a connected network, and then tap **Modify network**.
4. Tap **Advanced options**.
5. Under Proxy, tap **None** to open menu, and then select **Manual**.
6. Enter the proxy settings for the network.
7. Tap **Save**.

## Disable Wi-Fi Notifications and Set WLAN Radio Sleep Parameter

By default, when Wi-Fi is enabled, you receive notifications in the Status bar when the computer discovers a wireless network. You can disable these notifications.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings  > **Networks & Internet** > **Wi-Fi**. Verify the WLAN radio is turned On.
3. Navigate to the bottom of the discovered network list.
4. Select **Wi-Fi preferences**.
5. Tap **Open network notification** to toggle the setting On or Off.

## Connect to an Ethernet Network

To connect the computer to an Ethernet network, you need a CN80 Ethernet Home Base or a CN80 Net Base.

1. Make sure the base is connected to your Ethernet network.
2. Place the computer in the base.
3. Swipe up from the bottom of the Home screen to access all apps.
4. Tap Settings  > **Network & Internet** > **Ethernet**. The Ethernet setting is turned On by default.
5. Tap **Ethernet**.

The Ethernet connection screen shows the current Ethernet connection. By default, the computer assumes a DHCP connection, and that your network has assigned an IP address automatically. If DHCP is working, the Ethernet base should indicate that communication with the network is occurring.

6. (Optional) To assign a static IP address.
  - a. Tap **DHCP** and then select **Static** from the list.
  - b. Enter the required network information, and then tap **Apply**.
7. Tap **Save**.

## How to Connect to Virtual Private Networks

The computer supports connecting to virtual private networks (VPNs). This section describes how to add and connect to VPNs. To configure VPN access, you must obtain details from your network administrator. You can view and change VPN settings in the Settings app.

**Note:** Before you can add or connect to a VPN network, you must enable a screen lock method.

### Add a VPN

Before you can connect to a VPN, you must create a VPN profile.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Network & Internet** > **Advanced** > **VPN**.
3. Tap **+** to add a VPN new profile.
4. Enter the required information for the VPN connection. If needed, swipe up on the screen to access all the required information fields.
5. Tap **Save**. The VPN name appears in the VPN list.

### Connect to a VPN

Once a VPN profile is created, you can connect to the VPN at any time.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Network & Internet** > **Advanced** > **VPN**.
3. Tap the name of the VPN in the list.
4. Enter any necessary credentials when prompted.
5. Tap **Connect**. A  appears in the status bar and a notification is received. To disconnect from the VPN, tap the notification.

## Edit VPN Information

Editing an existing VPN profile can be done from the VPN screen.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Network & Internet** > **Advanced** > **VPN**.
3. Tap and hold the name of the VPN in the list.
4. Tap  to the right of the VPN profile you want to edit.
5. Edit the VPN settings as necessary.
6. When you are done, tap **Save**.

## About Wireless Security

The computer provides these security solutions for your wireless network:

- Wi-Fi Protected Access 2 (WPA2™)
- Wi-Fi Protected Access (WPA)
- 802.1x

Honeywell recommends WPA2 security with PSK (Personal) or 802.1x (Enterprise) key management.

Before you set security, you need to enable the radio, set the date, and set the SSID on your computer. To use 802.1x security, you need to load a root certificate on your computer. To use transport layer security (TLS) with 802.1x security, you also need to load a user certificate.

Use the Settings app to access and configure all wireless security settings.

## About Certificates

You can use digital certificates to identify the computer for network access or authentication to servers. To use a certificate to identify your device, you must install it in the trusted credential storage on the computer.

Android supports DER-encoded X.509 certificates saved in files with a .crt or .cer file extension. To install a valid certificate with a .der or other extension, you must change the extension to .crt or .cer to install it.

Android also supports X.509 certificates saved in PKCS#12 key store files with a .p12 or .pfx extension. To install a valid key store file with another extension, you must change the extension to .p12 or .pfx to install it. When you install a certificate from a PKCS#12 key store, Android also installs any accompanying private key or certificate authority certificates.

## Load a Certificate

To use a certificate, you must install it in the trusted credential storage on the computer.

**Note:** Apps such as email and browsers that support certificates allow you to install certificates directly from within the app. For more information, see the help that comes with the app.

1. Copy the certificate or key store from your PC to the mobile computer.
2. Swipe up from the bottom of the Home screen to access all apps.
3. Tap **Settings**  > **Security & location** > **Advanced** > **Encryption & credentials**.
4. Tap **Install from storage**. Navigate to the location where you saved the certificate or key store.
5. Tap the certificate or key store to install it. If prompted, enter the key store password and tap **OK**.
6. Select **VPN and apps** or **Wi-Fi**.
7. Enter a name for the certificate and tap **OK**.

## Disable or Remove Certificates

If a user or system certificate is compromised, or your organization chooses not to trust it, you can disable or remove the certificate.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Security & location** > **Advanced** > **Encryption & credentials**.
3. Select **Trusted credentials**.  
The trusted credentials screen has two tabs:
  - **System** shows Certificate Authorities (CA) certificates permanently installed on the computer. They can only be disabled.
  - **User** shows CA certificates you have installed yourself. You can remove these certificates.
4. Tap the name of the certificate to you want to disable or remove. The Security certificate screen appears.
5. Scroll to the bottom of the screen and tap **Disable** (for System certificates) or **Remove** (for User certificates).
6. Tap **OK**.

**Note:** You can enable a disabled System certificate but if you remove a User certificate, you must install it again to enable it.

# About Bluetooth Communications

Your mobile computer is equipped to communicate with other devices using Bluetooth technology. The Bluetooth radio must be turned On to discover, pair and connect to other Bluetooth devices. System bar icons indicate Bluetooth radio status.

## Connect a Bluetooth Device

To connect to a Bluetooth device, you must turn On the Bluetooth radio and then select the device from a list of discovered devices.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Connected devices** .
3. Tap **+** **Pair a new device**. A list of available Bluetooth devices appears.
4. Select a device on the list to initiate a pairing request.
5. When the pairing request message appears:
  - Verify the pairing PIN is the same on both device, and then tap **Pair**.

OR

- If the pairing request requires a PIN, enter the **PIN**, and then tap **Pair**.

When the device is successfully paired with the computer, the device name appears under Paired devices.

6. (Optional) Once paired to a device, you can connect manually to the device. Tap the device under Paired devices. The word “Connected” appears under the paired device name.

The status icon changes from  to .

- To disconnect a paired device, tap the name of the paired device and then tap **OK** when the “Disconnect?” screen appears.

## Rename the Computer and View File History

You can change the name of the computer to make it easier to identify when pairing with other Bluetooth enabled devices and view statistics about received files.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Connected devices** > **Connection Preferences** > **Bluetooth**.
3. Tap **Device Name** to change the device name. Type the new name and then tap **Rename**.

## Rename, Share, or Unpair a Paired Device

You can rename a paired device to make it easier to identify on the list or unpair the device to remove it from the paired list.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Connected devices** > **Previously connected devices** > **Bluetooth**.
3. Tap  next to the paired device.
4. Take one of the following actions:
  - To rename the device, type the new name, and then tap **OK**.
  - To allow **Internet connection sharing** or **Contact Sharing**, tap the check box next to the setting.
  - To unpair the device, tap **Forget**.

## About the Scanner Edge App

Your mobile computer is equipped to communicate with scanners using Bluetooth technology through the Scanner Edge app. The Bluetooth radio must be turned on. System bar icons indicate Bluetooth radio status.

To turn on the Bluetooth radio:

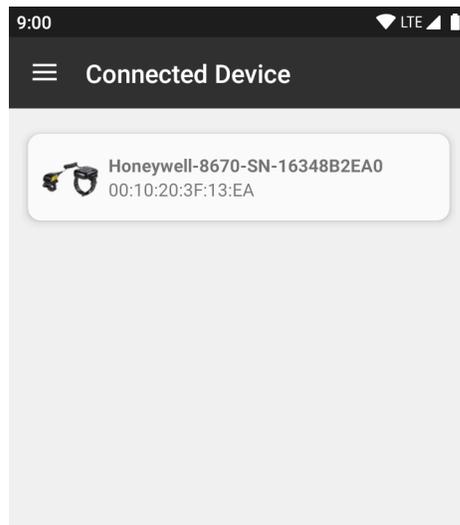
1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Connected devices** > **Connection preferences** > **Bluetooth**.
3. If necessary, tap **Off**  to toggle the Bluetooth radio **On** .

## Connect a Bluetooth Scanner

To connect to a Bluetooth scanner, the Bluetooth radio must be turned on and then scan a pairing bar code with the Bluetooth scanner.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Scanner Edge** .
3. Tap the menu icon  and then tap **Pair BT Scanner**.
4. For Honeywell branded scanners tap **Honeywell** or for Intermec branded scanners tap **Intermec**.
5. Scan the **Scan to connect barcode** displayed on screen.

- When the scanner is successfully paired with the computer, the scanner name appears under Connected Device.



## Unpair a Paired Scanner

You can unpair the scanner to remove it from the Connected Device list.

- Swipe up from the bottom of the Home screen to access all apps.
- Tap **Scanner Edge** .
- Tap the menu icon  and then tap **Disconnect BT Scanner**.
- Tap **Honeywell** or **Intermec**.
  - Scan the **Scan to disconnect barcode** displayed on screen.

## About Serial and USB Communications

You can use these Dolphin CX80 series accessories to transmit data to and receive data from another device through serial or USB communications:

- Vehicle dock
- Home Base
- Ethernet Home Base
- USB snap-on adapter

## USB Troubleshooting

- If you have a problem with your workstation computer recognizing the USB device, try downloading and installing the Honeywell-aidc-usb-driver. The

driver is part of the Honeywell\_Mobility SDK\_Android software.zip file. To learn where to get the software, see [Developer Information](#) on page 87.

- Check to make sure you have enabled the USB for file transfer. To learn more, see [Configure USB Connection and Transfer Files](#) on page 32

## How to Share Your Mobile Data Connection

You can share the mobile data connection through USB tethering or Bluetooth tethering. You can also use the computer as a Wi-Fi hotspot to share the connection with other devices.

### Share the Data Connection Through USB or Bluetooth

You can share your data connection with another device through tethering. After you connect the computer to another device through a USB connection, you can share the mobile computer's data connection through USB tethering. Or, if the device is Bluetooth-capable, you can configure the mobile computer to share the data connection with the device through Bluetooth tethering.

1. Prepare the devices.
  - For USB - Connect the mobile computer to another device through a Dolphin CN80 accessory and USB communication cable. Make sure your USB connection is set to File Transfer instead of Charging.
  - For Bluetooth - Pair your CN80 with another Bluetooth enabled device. Make sure the other device is set to use a network connection by Bluetooth.
2. Swipe up from the bottom of the Home screen to access all apps.
3. Tap **Settings**  > **Network & tethering** > **Hotspot & tethering**.
4. Select the type of tether to initiate:
  - Tap **USB tethering**.
  - Tap **Bluetooth tethering**.

The devices is now sharing the computer data connection.

**Note:** To stop sharing the connection, disconnect the USB cable, or tap **USB tethering** or **Bluetooth tethering** again to turn Off the feature.

## About Near Field Communication (NFC)

NFC technology provides the ability for short-range, wireless data transfer between the CN80 and NFC tags or other NFC enabled devices placed in close proximity to the back of the computer. All CN80 mobile computers support the following modes of operation:

- NFC tag reader/writer mode: The computer reads and/or writes digital information from or to an NFC tag.
- Peer-to-Peer (P2P) mode: The computer uses Android Beam and/or Bluetooth technology to transfer screen content (e.g., a picture, contact information, Web page url, or file) between NFC enabled devices.
- NFC card emulation mode: The computer emulates an NFC card (smart card) that an external card reader can access. You can download and install apps for card emulation mode from the Google Play Store. Some examples include digital wallets (e-wallets) offered by your bank or credit card company and Google Pay.

The app you install determines the type of emulation mode used: Card Emulation with a Secure Element or Host-based Card Emulation. Secure element use is common for financial transactions that require a high level of security in order to provide a secure memory and execution environment for running custom smart card applets and storing your personal information (e.g., account information and credentials).

**Note:** When using a Universal Integrated Circuit (UICC) card for NFC Secure Element NFC link encryption, install the card in SIM slot 1.

## Developer Information

To download the Honeywell Mobility SDK for Android and EZConfig for Mobility:

1. Go to [www.honeywellaidc.com](http://www.honeywellaidc.com).
2. Select **Get Resources > Software**.
3. Click on the *Technical Support Downloads Portal* link, <https://hsmftp.honeywell.com>.
4. Create an account if you have not already created one. You must login to download the software.
5. Install the *Honeywell Download Manager* tool on your workstation (e.g., laptop or desktop computer) prior to trying to download any files.
6. Navigate to the software:
  - *Honeywell Mobility SDK for Android*  
Click on **Software > Software and Tools > Developer Library > SDKs for Android**.
  - *EZConfig for Mobility*  
Click on **Software > Software and Tools > EZConfig for Mobility**.
7. Select **Download** next to the software zip file.

# About Provisioning Mode

Once you complete the out-of-box initial setup process, Provisioning mode is automatically turned Off to improve device security against unwanted modifications to the system.

When Provisioning mode is turned Off (disabled):

- Configuration bar codes do not scan and process.
- \honeywell\autoinstall folders are inaccessible.

**Note:** To learn more about network and security for Honeywell mobile computers with Android operating systems, go to [www.honeywellaidc.com](http://www.honeywellaidc.com).

## Enable or Disable Provisioning Mode

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Honeywell Settings** > **Provisioning mode** .
3. Tap the button to toggle the provisioning **On** or **Off**.

# MANAGE AND MAINTAIN THE COMPUTER

Use this chapter to understand how to upgrade software, reset, and maintain the computer.

## About Software Updates

Honeywell provides patches and security updates for existing software products at no additional charge. Software upgrades (from one major version to another) may involve additional charges. Some licensed software that Honeywell distributes requires user registration and log in before the software can be downloaded.

Support for Honeywell Safety and Productivity Solutions products is available online through the [Technical Support Portal](#).

Software downloads can be accessed through the [Technical Support Downloads Portal](#).

1. Go to [www.honeywellaidc.com](http://www.honeywellaidc.com).
2. Select **Get Resources** > **Software**.
3. Click on the *Technical Support Downloads Portal* link, <https://hsmftp.honeywell.com>.
4. Create an account if you have not already created one. You must login to download the software.
5. Install the *Honeywell Download Manager* tool on your workstation (e.g., laptop or desktop computer) prior to trying to download any files.
6. Locate the app or upgrade you want to download in the Software directory tree.
7. Select **Download**. Follow the prompts to download the file.

## About Transferring Files via USB Connection

If you plan on using a USB connection to transfer the upgrade files to the mobile computer, make sure you set the USB connection to allow file transfers. To learn more, see [Configure USB Connection and Transfer Files](#) on page 32.

# Install Software Updates with AutoInstall

**Important:** *The Dolphin CN80 must have power for the entire length of the upgrade process or it could become unstable. Do not attempt to remove the battery during the process.*

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Provisioning mode** under *Honeywell Settings*.
3. Tap the toggle button to turn Provisioning mode **On**.
4. Save the upgrade file (\*.zip or \*.apk) in one of the following folders on the CN80 mobile computer:
  - **Internal shared storage\honeywell\autoinstall**  
Software upgrades saved to this folder for installation, do not persist when a Full factory reset or Enterprise data reset is performed.
  - **IPSM card\honeywell\autoinstall**  
Software upgrades saved to this folder, do not persist when a Full factory reset is performed. However, the upgrade does persist if an Enterprise data reset is performed.
5. Swipe up from the bottom of the Home screen to access all apps.
6. Tap **AutoInstall Settings**  and verify **Autoinstall** is enabled .
7. Tap **Packages Update** from the AutoInstall Settings screen.

The computer automatically initiates a reboot and installs the software upgrade. The system update screen appears during the upgrade process. When the update is finished, the lock screen appears.
8. Once installation is complete, turn Provisioning mode **Off**.

**Note:** *Some updates do not require the computer to reboot before installation.*

## Optional microSD Card Method

The CN80 comes equipped with a microSD card socket. You can install an upgrade from a microSD card you insert in the computer.

**Important:** *The Dolphin CN80 must have power for the entire length of the upgrade process or it could become unstable. Do not attempt to remove the battery during the process.*

1. On the CN80, swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Provisioning mode** under *Honeywell Settings*.
3. Tap the toggle button to turn Provisioning mode **On**.
4. Tap **AutoInstall Settings** . Verify **AutoInstall** is enabled .
5. Press and hold the **Power** button, and then tap **Power off**.

6. On your workstation (e.g., laptop, desktop computer), format the microSD card and create a **\honeywell\autoinstall** folder on the root of the card.
7. Save the upgrade file in the **autoinstall** folder.
8. Install the microSD card in the CN80, and then press the **Power** button.

The computer automatically runs the upgrade found in the autoinstall folder on the card. The system update screen appears during the upgrade process. When the upgrade is finished, the lock screen appears.

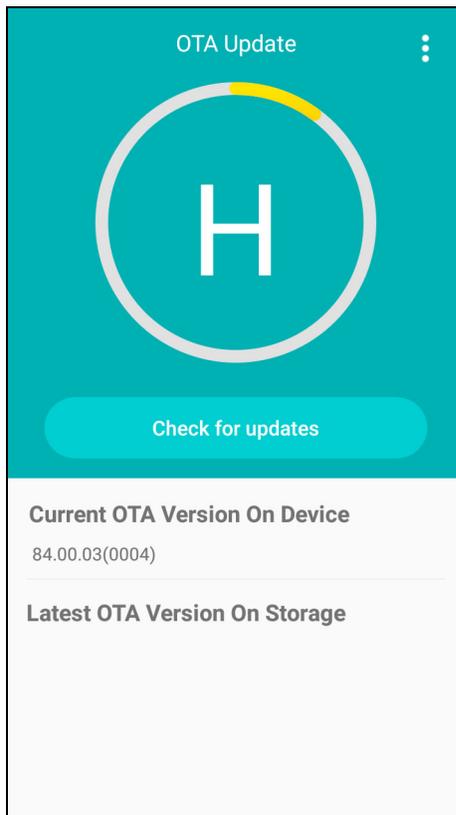
9. Once installation is complete, turn Provisioning mode **Off**.

## About the Honeywell Upgrader

Use the Honeywell Upgrader app (HUpgrader) to check for and install OTA updates or view the current OTA version installed on the computer.

## How to View the Installed OTA Version

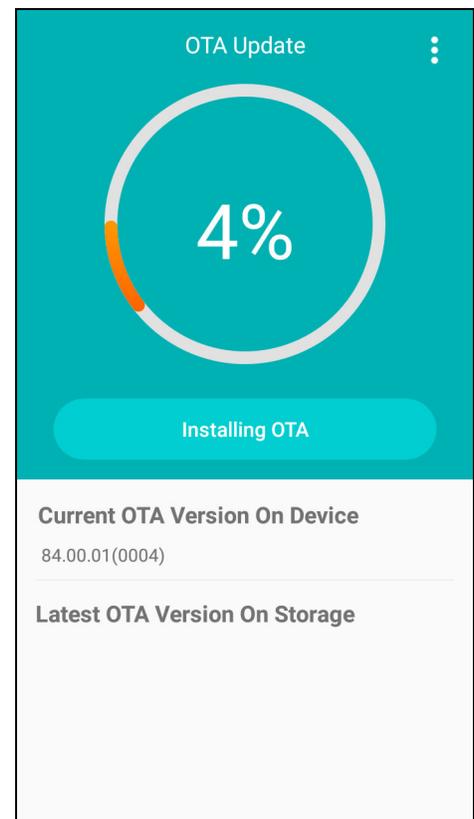
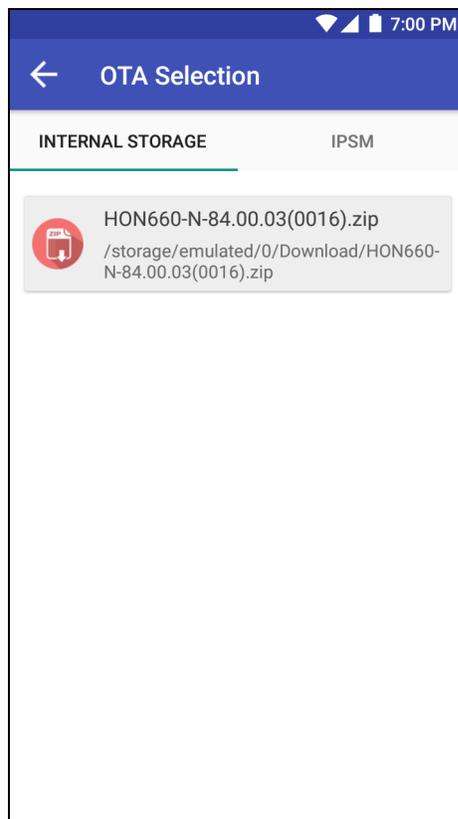
1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **HUpgrader**  to open the Honeywell Updater app. The OTA version number installed on the computer appears on the screen.



# Install OTA Updates

To use the HUpgrader to install an OTA update file downloaded from the [Technical Support Downloads Portal](#):

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings**  > **Provisioning mode** under *Honeywell Settings*.
3. Tap the toggle button to turn Provisioning mode **On**.
4. Save the OTA file (\*.zip) in the following folder on the CN80 computer:
  - **Internal shared storage\Download**
5. Tap **HUpgrader**  to open the Honeywell Updater app.
6. Tap  in the upper right corner, and then tap **Select OTA from storage**.
7. Select the storage location (i.e., Internal Storage) where you saved the file.
8. Tap the OTA update file. The computer examines the file, and then starts the installation.



9. Once the installation is complete (100%), select **OK** when prompted to **Reboot** the computer. The computer reboots and finishes the update.

# Reboot (Restart) the Computer

You may need to reboot the computer to correct conditions where an application stops responding to the system.

1. Save your files and close any open applications.
2. Press and hold the **Power** button until the options screen appears.
3. Tap **Reboot**.
4. Tap **OK** to confirm Reboot. The computer reboots.

If the touch panel display is unresponsive:

- Press and hold the **Power** button for approximately 8 seconds until the computer reboots.

## About Enterprise Data Reset

You can perform an Enterprise data reset if a Reboot did not improve the condition and all other troubleshooting methods have not resolved the issue. This method provides a clean configuration for troubleshooting by erasing all data from the **Internal shared storage** location on the computer. Data is not erased from the IPSM Card location.



**Caution:** An Enterprise data reset results in data loss, only perform this procedure if all other recovery methods have failed. All personal content is erased including, but not limited to emails, pictures, contacts, Google account information, system settings and app settings.

**Note:** *This method of recovery may not be available if your system administrator has set policies to prevent the reset use.*

## Before You Begin

- If you recently reset your Google Account password, wait 24 hours before performing a Enterprise data reset.
- Make sure you have your screen lock password, PIN or pattern if you activated one. You will need this to reset the computer.
- If you have a Google Account, back up your data and settings to your Google Account so you can restore them if needed.
- Connect the computer to an external power source or make sure you have a full battery charge.
- Make sure you have an Internet connection.

## Enterprise Data Reset the Computer

1. Swipe up from the bottom of the Home screen to access all apps.
2. Select **Settings**  > **Advanced** > **Backup & reset**.
3. Tap **Enterprise data reset**.
4. Tap **Reset Phone**.
5. If prompted, type your screen lock security pattern, PIN, or password and tap next (  ).
6. Tap **Erase Everything**. A message appears informing you an Enterprise data reset is being performed.

## About Full Factory Reset

A Full Factory Reset should only be performed if you have exhausted all other troubleshooting options. This method reverts the computer back to the factory state by erasing all data in **Internal shared storage** and the **IPSM Card** storage locations on the computer.



**Caution:** A Full factory reset results in data loss. Perform this procedure only if all other recovery methods have failed and have no other option. All personal content is erased including, but not limited to emails, pictures, contacts, Google account information, system settings and app settings.

**Note:** *This method of recovery may not be available if your system administrator has set policies to prevent the reset use.*

## Before You Begin

- If you added a Google Account to the computer, make sure you have your Google username and password associated with the computer. If you do not have the username and password, you will not be able to use the computer after the reset. This is a security measure that prevents unauthorized users from using the device if they try a Full factory reset.
- If you did not add a Google Account to the computer, the extra security level is not enabled and you will not need a Google username and password.
- If you recently reset your Google Account password, wait 24 hours before performing a Full factory reset.
- Connect the computer to an external power source or make sure you have a full battery charge.
- Make sure you have an Internet connection.

## Full Factory Reset the Computer

1. Swipe up from the bottom of the Home screen to access all apps.
2. Select **Settings**  > **Advanced** > **Backup & reset**.
3. Tap **Full factory reset**.
4. Tap **Reset Phone**.
5. If prompted, type your screen lock security pattern, PIN, or password and tap next (  ).
6. Tap **Erase Everything**. A message appears informing you an Full factory reset is being performed.

## Clean the Computer

To keep the computer in good working order, you may need to clean the scanner window, color camera window, and the touch screen. Clean the windows and the touch screen as often as needed for the environment in which you are using the computer. The computer withstands application of the following cleaning agents when applied to a clean soft cloth and removed immediately with a dry soft cloth:

- Acetic acid, 10% in water
- Ethyl alcohol, 10% in water
- Mild soap solutions

**Note:** *Always leave the battery installed when you clean the computer.*

1. Press the **Power** button to suspend the computer.
2. Dip a clean cloth towel in the cleaning agent and wring out the excess.
3. Wipe off the scanner window, camera lens, and flash area. Do not allow any abrasive material to touch these surfaces.
4. Wipe dry.
5. Let the computer completely air dry before using again.



## Computer Agency Information

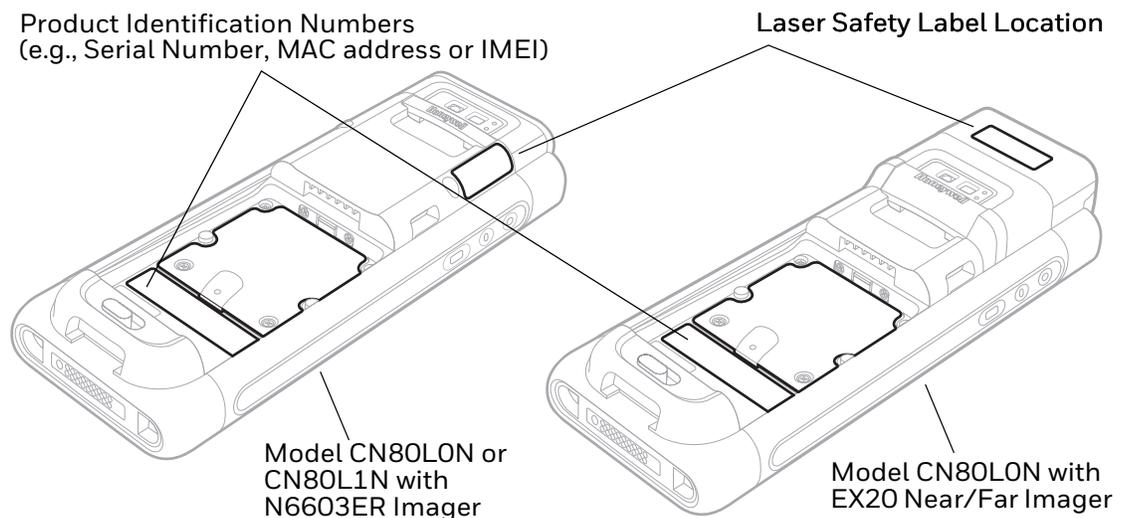
Dolphin CN80 mobile computers meet or exceed the requirements of all applicable standards organizations for safe operation. The best way to ensure safe operation is to use the mobile computer according to the agency guidelines on the product regulatory sheet, quick start guide and in this user guide. Read all guidelines before using your computer.

Product documentation is available for download from [www.honeywellaidc.com](http://www.honeywellaidc.com).

Public certificates are available for download from [www.honeywellaidc.com/compliance](http://www.honeywellaidc.com/compliance).

## Label Locations

Labels inside the battery compartment contain information about the computer including, compliance information, model number, serial number, IMEI number (CN80L1N models only) and MAC address. Laser safety labeling is located on the back of the computer.



# Physical and Environmental Specifications

1. Go to [www.honeywellaidc.com](http://www.honeywellaidc.com).
2. Type CN80 in the Search box and then press **Enter**.
3. Select the **Products** tab.
4. Click the red arrow under the Dolphin CN80 *Handheld Computer* description.
5. Select one of the following:
  - **Specifications**  
View System Architecture, Wireless Connectivity, Mechanical, and Environmental specifications.
  - **Documents**  
Download the Data Sheet, Accessory Guide, Quick Start Guide, User Guide, Regulatory Information, Battery Information and other product documentation.

## Bar Code Symbolologies Supported

The computer supports the following bar code symbolologies:

1D Symbolologies		2D Symbolologies		Postal Codes	
	Default		Default		Default
Codabar	Enabled	Aztec Code	Enabled	China Post	Disabled
Code 39	Enabled	Codablock A	Disabled	Korean Post	Disabled
Code 11	Disabled	Codablock F	Disabled	2D Postal Settings	Disabled
Code 93	Disabled	DataMatrix	Enabled	Australia Post	Disabled
Code 128	Enabled	DotCode	Disabled	Info Mail	Disabled
ISBT 128	Disabled	Grid Matrix	Disabled	Japan Post	Disabled
Composite	Disabled	HanXin	Disabled	Canada Post	Disabled
Digimarc	Disabled	Maxicode	Disabled	Dutch Post (KIX)	Disabled
EAN-8	Enabled	Micro PDF 417	Disabled	Planet	Disabled
EAN-13	Enabled	PDF 417	Enabled	Postnet	Disabled
GS1-128	Enabled	QR Code	Enabled	BPO	Disabled
GS1 Databar	Disabled	TLC 39	Disabled	UPU	Disabled
IATA 2 of 5	Disabled	OCR	Disabled	USPS	Disabled
Standard 2 of 5	Disabled				
Interviewed 2 of 5	Enabled				
Matrix 2 of 5	Disabled				
MSI	Disabled				
Telepen	Disabled				
Trioptic Code	Disabled				

1D Symbologies		2D Symbologies		Postal Codes	
	Default		Default		Default
UPC/EAN	Disabled				
UPC-A	Enabled				
UPC-E	Enabled				
UPC-E1	Disabled				

**Note:** To learn about changing the symbology settings, see [Change the Scanner Settings](#) on page 46.

## N6603ER Imager Engine Reading Distances

The depth of field measurements were taken using these parameters:

- Distances are measured from the front of the engine.
- +23 °C (+73 °F), 0 lux
- Photographic quality codes

**Note:** Time to Read and Depth of Field are impacted if the bar code symbol is at the edge of the image.

### White Illumination Monochrome Sensor Only

Symbology	Near Distance (in/cm)	Far Distance (in/cm)	Delta (in/cm)
5 mil Code 39	4.1 (10.4)	10.9 (27.8)	6.9 (17.4)
10 mil Code 39	3.1 (8.0)	17.6 (44.7)	15.9 (40.0)
100% UPC	2.2 (5.5)	19.9 (50.5)	18.4 (46.8)
20 mil C39	2.4 (6.1)	27.6 (70.2)	21.2 (53.9)
6.7 mil PDF 417	5.3 (13.6)	9.0 (22.9)	3.6 (9.10)
20 mil QR Code	2.1 (5.3)	19.2 (48.7)	17.2 (43.5)
10 mil DataMatrix/Aztec	5.0 (12.7)	10.5 (26.8)	5.5 (14.1)

## N6603ER Imager Engine Field of View/Resolution

Focus	
Horizontal Field Angle (degrees)	17.6 ±3.5°
Vertical Field Angle (degrees)	13.5 ±3.5°

**Note:** DPI can be calculated based on the following formula:  
Horizontal DPI = 832 pixels/width of horizontal field of view (inches)  
Vertical DPI = 640 pixels/width of vertical field of view (inches)

# EX20 Near/Far Image Engine Reading Distances

The depth of field measurements were taken using these parameters:

- Distances are measured from the front of the engine.
- +23 °C (+73 °F), 0 lux
- Photographic quality codes

**Note:** *Time to Read and Depth of Field are impacted if the bar code symbol is at the edge of the image.*

## White Illumination Monochrome Sensor Only

Symbology	Near Distance (in/cm)	Far Distance (in/cm)	Delta (in/cm)
3 mil Code 39	5.91 (15)	13.78 (35)	7.87 (20)
10 mil Code 39	5.91 (15)	45.28 (115)	39.37 (100)
20 mil Code 39	6.30 (16)	82.68 (210)	76.38 (194)
40 mil Code 39	9.84 (25)	122.05 (310)	112.21 (285)
UPC/EAN 100%	5.91 (15)	57.09 (145)	51.18 (130)

# EX20 Imager Engine Field of View/Resolution

Focus	
Horizontal Field Angle (degrees)	14.0°
Vertical Field Angle (degrees)	8.7°

**Note:** *DPI can be calculated based on the following formula:  
Horizontal DPI = 832 pixels/width of horizontal field of view (inches)  
Vertical DPI = 640 pixels/width of vertical field of view (inches).*



Honeywell  
9680 Old Bailes Road  
Fort Mill, SC 29707

[www.honeywellaidc.com](http://www.honeywellaidc.com)