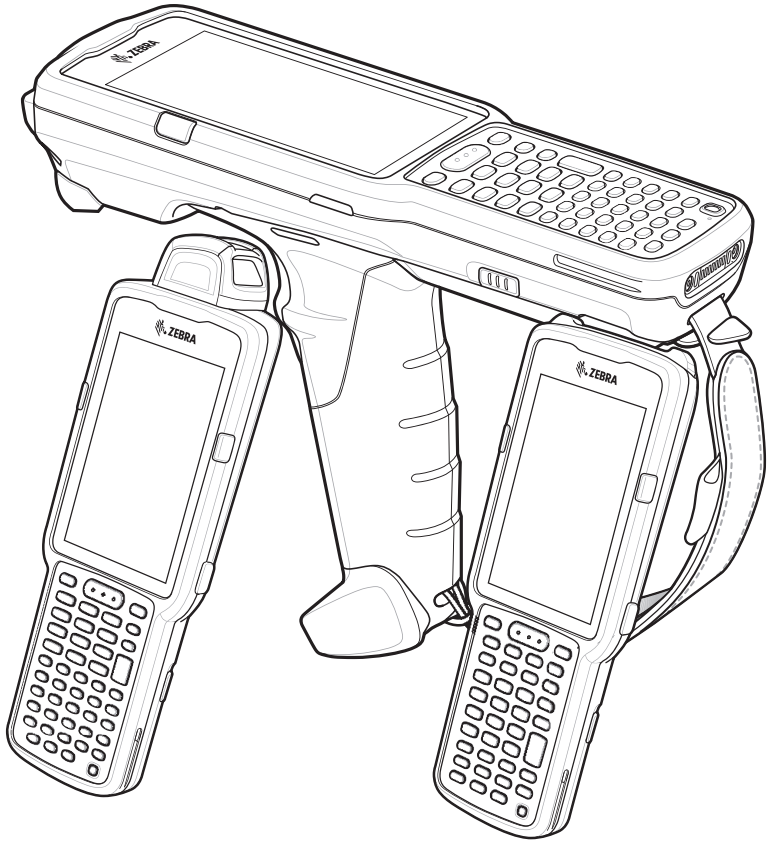
MC3300x

Mobile Computer



Product Reference Guide

for Android ™ 9.0 Pie

ZEBRA

MN-003568-01 Rev A

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Revision History

Changes to the original guide are listed below:

Change	Date	Description
-01 Rev A	12/2019	Initial release.

Table of Contents

Copyright 2
Terms of Use 2
Revision History 2

About This Guide 14
Configurations 14
Notational Conventions 16
Service Information 16
    Software Versions 16

Getting Started 18
Unpacking 18
MC3300x-G Features 19
MC3300x-R Features 21
    Rotating Scan Turret 23
MC3300x-S Features 24
Setting Up the Device 26
    Installing a microSD Card 26
    Installing the MC3300x-G Battery 28
    Installing the MC3300x-R/S Battery 29
    Charging the Battery 30
    Charging Indicators 32
        Backup Power 32
        Charging Temperature 32
        Charging Spare Batteries 33
        Hot Swap Mode 33
    Zebra Visibility Services 33
Replacing the Battery in the MC3300x-G 33
Replacing the Battery in the MC3300x-R/S 36
Real-Time Clock Backup 38

Using the Device **39**
Home Screen 39
Setting Home Screen Rotation 40
Status Bar 40
Status Icons 41
Notification Icons 42
Managing Notifications 42
Quick Access Panel 43
Editing Icons on Quick Settings 44
Battery Management 44
Monitoring Battery Usage 45
Low Battery Notification 45
Battery Optimization 45
Interactive Sensor Technology 46
Suspend Mode 46
USB Communication 46
Transferring Files 46
Transferring Photos 47
Disconnect from the Host Computer 47

Settings **48**
Accessing Settings 48
Display Settings 48
Setting the Screen Brightness 48
Setting Night Light 48
Setting Screen Rotation 49
Setting Screen Timeout 49
Ambient Display 50
Setting Font Size 50
Setting Display Size 50
Touch Panel Mode 51
General Sound Setting 51
Sound Options 51
Setting Device Advertisement 52
Wake-Up Sources 53
Remapping a Button 53
Remappable Keys 54
UI Listed Keys 54
Other Remappable Keys 54
Non-Remappable Keys 55
Keyboards 55

Keyboard Configuration 55
Enabling Keyboards 55
Switching Between Keyboards 55
Using the Android and Gboard Keyboards 56
Editing Text 56
Entering Numbers, Symbols, and Special Characters 56
Using the Enterprise Keyboard 56
Numeric Tab 56
Alpha Tab 57
Additional Character Tab 57
Scan Tab 58
Language Usage 58
Changing the Language Setting 58
Adding Words to the Dictionary 58
Notifications 58
Setting App Notifications 58
Viewing Notification Settings for All Apps 59
Controlling Lock Screen Notifications 59
Blink Light 59

Applications 60
Apps 60
Accessing Apps 63
Switching Between Recent Apps 63
Battery Manager 64
Camera 67
Taking Photos 67
Taking a Panoramic Photo 68
Recording Videos 69
Photo Settings 70
Rear Camera 70
Video Settings 70
Rear Camera 70
DataWedge Demonstration 72
Scanner Selection 73
Device Central 74
Scan and Pair Tab 74
Scan and Pair 74
Scan to Pair 75
Manually Pairing 75
Peripherals Tab 75
My Device Tab 75
Unpairing a Peripheral 76

Paging an RS6000 Ring Scanner 76
Diagnostic Tool 77
Settings 80
Battery Test Information 80
GPS Test Information 81
System Test Information 81
WLAN Test Information 81
WWAN Test Information 81
Bluetooth Test Information 81
PTT Express Voice Client 82
PTT Express User Interface 82
PTT Audible Indicators 83
PTT Notification Icons 83
Enabling PTT Communication 83
Selecting a Talk Group 84
PTT Communication 84
Creating a Group Call 84
Responding with a Private Response 84
Disabling PTT Express Voice Client Communication 84
RxLogger 85
RxLogger Configuration 85
Configuration File 85
Enabling Logging 85
Disabling Logging 85
Extracting Log Files 85
RxLogger Utility 86
App View 86
Viewing Logs 86
Backup 87
Archive Data 88
Overlay View 88
Initiating the Main Chat Head 88
Removing the Main Chat Head 88
Viewing Logs 88
Removing a Sub Chat Head Icon 90
Backing Up In Overlay View 90
SimulScan Demo 91
Printing the Sample Forms 92
Using the Postal, Transportation and Logistics Example 93
Using the Manufacturing Example 95
Settings 96
Advanced Settings 97
Creating a Demo Customization 97

Default Templates 99
Sound Recorder 100

Data Capture 101
Integrated Imager 101
Operational Modes 101
Laser Scanner 102
RS507/RS507X Hands-Free Imager 102
RS6000 Bluetooth Ring Scanner 102
DS3678 Digital Scanner 102
Scanning Considerations 103
Scanning with Internal Imager 103
Scanning with Laser Scanner 105
Scanning with RS507/RS507X Hands-Free Imager 105
Scanning with RS6000 Bluetooth Ring Scanner 107
Scanning with the DS3608 USB Scanner or DS3678 Bluetooth Scanner 108
Pairing the RS507/RS507X/RS6000 Hands-Free Imager 109
Pairing Using Near Field Communication 109
Pairing in HID Mode Using Near Field Communication 110
Pairing Using Simple Serial Interface 111
Pairing Using Bluetooth Human Interface Device 112
Pairing a Bluetooth Scanner 113
Pairing Using Bluetooth Human Interface Device 113
DataWedge 114
Enabling DataWedge 114
Disabling DataWedge 114
Decoders 114

Wireless 117
Wireless Local Area Networks 117
Accessing Settings 118
Connecting to a Wi-Fi Network 118
Removing a Wi-Fi Network 118
WLAN Configuration 119
Configuring a Secure Wi-Fi Network 119
Manually Adding a Wi-Fi Network 120
Configuring for a Proxy Server 120
Configuring the Device to Use a Static IP Address 121
Wi-Fi Preferences 122
Additional Wi-Fi Settings 122

Wi-Fi Direct 123
WPS Push Button 123
WPS Pin Entry 123
Bluetooth 123
Adaptive Frequency Hopping 124
Security 124
Bluetooth Profiles 125
Bluetooth Power States 125
Bluetooth Radio Power 126
Enabling Bluetooth 126
Disabling Bluetooth 126
Discovering Bluetooth Device(s) 126
Changing the Bluetooth Name 127
Connecting to a Bluetooth Device 127
Selecting Profiles on the Bluetooth Device 127
Unpairing a Bluetooth Device 127
Using a Bluetooth Headset 128
Near Field Communications 128
Reading NFC Cards 128
Sharing Information Using NFC 129
Cast 130

Accessories 131
Introduction 131
MC3300x Accessories 131
Compatibility 135
Battery Comparison 136
Battery Compatibility 136
Battery Charging 136
Main Battery Charging 136
Spare Battery Charging 136
Charging Temperature 137
1-Slot USB Charge Cradle 137
Setup 139
Charging the MC3300x Battery 139
Charging an MC3300x Spare Battery 139
Battery Charging in 1- Slot USB Charge Cradle 140
5-Slot Charge Only ShareCradle 140
Setup 141
Charging the MC3300x Battery 142
Battery Charging in the 5-Slot Charge Only ShareCradle 142

5-Slot Ethernet ShareCradle 142
Setup 144
Charging the MC3300x Battery 144
Battery Charging in the 5-Slot Ethernet ShareCradle 144
Daisy-chaining Ethernet ShareCradles 145
Ethernet Settings 145
Configuring Ethernet Proxy Settings 146
Configuring Ethernet Static IP Address 146
Establishing Ethernet Connection 147
LED Indicators 148
5-Slot ShareCradle with 4-Slot Battery Charger 148
Setup 150
Charging the MC3300x Battery 150
Charging Spare Batteries 150
Battery Charging in the 5-Slot ShareCradle with 4-Slot Battery Charger 150
5-Slot Ethernet ShareCradle with 4-Slot Battery Charger 151
Setup 152
Charging the MC3300x Battery 152
Charging Spare Batteries 152
Battery Charging in the 5-Slot Ethernet ShareCradle with 4-Slot Battery Charger 153
Daisy-chaining Ethernet Cradles 153
Ethernet Settings 154
Configuring Ethernet Proxy Settings 154
Configuring Ethernet Static IP Address 155
Establishing Ethernet Connection 156
LED Indicators 156
4-Slot Spare Battery Charger 156
Setup 157
Charging Spare Batteries 157
20-Slot Spare Battery Charger 158
Setup 159
Charging Spare Batteries 159
USB Charge Cable 160
Connecting the USB Charge Cable to Device 161
Connecting the USB Charge Cable to Host Computer 161
Main Battery Charging 162
Charging the Device 162
Main Battery Charging 163
Disconnecting the USB Charge Cable 163
MC3300x Charge Only Adapter 164
Adapter Installation 164
MC3300x-G Rubber Boot 166

MC3300x-R Rubber Boot 167
MC3300x-S Rubber Boot 169
Rigid Holster 169
MC3300x-G Fabric Holster 171
Belt Strap 171
Shoulder Strap 172
Using the Belt Strap 173
Using the Shoulder Strap 175
MC3300x-R/S Fabric Holster 176
Belt Clip 176
Shoulder Strap 177
Using the Belt Clip 178
Using the Shoulder Strap 179
Un-powered Forklift Mount 180
Replacement Hand Strap for MC3300x-G 182
Replacement Hand Strap for MC3300x-R/S 183
Lanyard 185
Install Lanyard on MC3300x 186
Using the Cross-body Strap 187
Using the Belt Clip 188
Charging the MC3300x with the Lanyard 189

Application Deployment 190
Security 190
Secure Certificates 190
Installing a Secure Certificate 190
Configuring Credential Storage Settings 191
License Manager 191
Android Versions Supported 191
Requirements 191
Start Application 191
Active License Display 192
Activate License 193
Add License Source 195
Refresh a License 196
Settings 197
Notifications Settings 197
License Sources Settings 198
About Settings 200
Development Tools 201
Android Application Development 201

Development Workstation 201
Target Device 201
EMDK for Android 201
StageNow 201
ADB USB Setup 202
Enabling USB Debugging 202
Application Installation 203
Installing Applications Using the USB Connection 203
Installing Applications Using the Android Debug Bridge 203
Installing Applications Using a microSD Card 204
Uninstalling an Application 205
Performing a System Update 205
Downloading the System Update Package 205
Using microSD Card 205
Using ADB 206
Verify System Update Installation 207
Performing an Enterprise Reset 207
Downloading the Enterprise Reset Package 207
Using microSD Card 207
Using ADB 208
Performing a Factory Reset 208
Downloading the Factory Reset Package 208
Using microSD Card 209
Using ADB 209
Storage 210
Random Access Memory 210
Internal Storage 211
External Storage 211
Formatting a microSD Card or USB Drive as Portable Storage 211
Formatting a microSD Card as Internal Memory 211
Enterprise Folder 212
App Management 212
Viewing App Details 212
Managing Downloads 213

Maintenance and Troubleshooting 214
Maintaining the Device 214
Battery Safety Guidelines 214
Cleaning Instructions 215
Approved Cleanser Active Ingredients 215
Harmful Ingredients 216

Device Cleaning Instructions 216
Special Cleaning Notes 216
Cleaning Materials Required 216
Cleaning Frequency 216
Cleaning the Device 217
Housing 217
Display 217
Camera and Exit Window 217
Cleaning Battery Connectors 217
Cleaning Cradle Connectors 217
Troubleshooting 218
Resetting the Device 218
Performing a Soft Reset 218
Performing a Hard Reset 218
MC3300x 218
1-Slot USB Charge Cradle 221
5-Slot Charge Only ShareCradle 222
5-Slot Ethernet ShareCradle 222
5-Slot ShareCradle with 4-Slot Battery Charger 223
5-Slot Ethernet ShareCradle with 4-Slot Battery Charger 224
4-Slot Spare Battery Charger 224
20-Slot Spare Battery Charger 225
USB Charge Cable 226

Technical Specifications 227
Introduction 227
Data Capture Supported Symbologies 227
SE965 Decode Zone 227
SE4720 Decode Zone 228
SE4770 Decode Zone 228
SE4850-ER Decode Zone 229
1-Slot USB Charge Cradle with Spare Battery Charger Technical Specifications 230
5-Slot Charge Only ShareCradle Technical Specifications 231
5-Slot Ethernet ShareCradle Technical Specifications 232
5-Slot Charge ShareCradle with 4-Slot Battery Charger Technical Specifications 232
5-Slot Ethernet ShareCradle with 4-Slot Battery Charger Technical Specifications 233
4-Slot Spare Battery Charger Technical Specifications 233
20-Slot Spare Battery Charger Technical Specifications 234
USB Charge Cable Technical Specifications 235

Keypads 236

Introduction 236
MC3300x 29-Key Keypad 236
MC3300x 38-Key Keypad 239
MC3300x 47-Key Keypad 242

Index

About This Guide

Configurations

MC3300x used in this guide refers to all configurations, except where noted. MC3300x-G refers to the Trigger configuration. MC3300x-R refers to the Rotate configuration. MC3300x-S refers to the Straight configuration. MC3300x-S45 refers to the 45 degree angle Straight configuration.

This guide covers the following configurations:

Table 1 *Configurations*

Configuration	Radios	Display	Memory	Data Capture Options	Operating System
MC3300x–G	WLAN: IEEE® 802.11a/b/g/n/ac WPAN: Bluetooth V5.0, V2.1 + EDR w/ Bluetooth Low Energy (BLE) NFC	4.0” color	4 GB RAM / 16 GB Flash	SE965 1D SE4720 2D	Android-based AOSP 9.0
MC3300x–G	WLAN: IEEE® 802.11a/b/g/n/ac WPAN: Bluetooth V5.0, V2.1 + EDR w/ Bluetooth Low Energy (BLE) NFC	4.0” color	4 GB RAM / 32 GB Flash	SE965 1D SE4770 2D SE4850-ER 2D	Android-based GMS 9.0
MC3300x–R	WLAN: IEEE® 802.11a/b/g/n/ac WPAN: Bluetooth V5.0, V2.1 + EDR w/ Bluetooth Low Energy (BLE) NFC	4.0” color	4 GB RAM / 32 GB Flash	SE965 1D	Android-based GMS 9.0

Table 1 *Configurations (Continued)*

Configuration	Radios	Display	Memory	Data Capture Options	Operating System
MC3300x–R Camera	WLAN: IEEE® 802.11a/b/g/n/ac WPAN: Bluetooth V5.0, V2.1 + EDR w/ Bluetooth Low Energy (BLE) NFC	4.0” color	4 GB RAM / 32 GB Flash	SE965 1D Color Camera	Android-based GMS 9.0
MC3300x–S	WLAN: IEEE® 802.11a/b/g/n/ac WPAN: Bluetooth V5.0, V2.1 + EDR w/ Bluetooth Low Energy (BLE) NFC	4.0” color	4 GB RAM / 16 GB Flash	SE965 1D SE4720 2D	Android-based AOSP 9.0
MC3300x–S	WLAN: IEEE® 802.11a/b/g/n/ac WPAN: Bluetooth V5.0, V2.1 + EDR w/ Bluetooth Low Energy (BLE) NFC	4.0” color	4 GB RAM / 32 GB Flash	SE965 SE4770 2D SE4850-ER 2D	Android-based GMS 9.0
MC3300x–S Camera	WLAN: IEEE® 802.11a/b/g/n/ac WPAN: Bluetooth V5.0, V2.1 + EDR w/ Bluetooth Low Energy (BLE) NFC	4.0” color	4 GB RAM / 32 GB Flash	SE965 Color Camera SE4770 2D Color Camera SE4850-ER 2D Color Camera	Android-based GMS 9.0
MC3300x–S45	WLAN: IEEE® 802.11a/b/g/n/ac WPAN: Bluetooth V5.0, V2.1 + EDR w/ Bluetooth Low Energy (BLE) NFC	4.0” color	4 GB RAM / 32 GB Flash	SE4770 2D	Android-based GMS 9.0
MC3300x–S45 Camera	WLAN: IEEE® 802.11a/b/g/n/ac WPAN: Bluetooth V5.0, V2.1 + EDR w/ Bluetooth Low Energy (BLE) NFC	4.0” color	4 GB RAM / 32 GB Flash	SE4770 2D Color Camera	Android-based GMS 9.0

Notational Conventions

The following conventions are used in this document:

- **Bold** text is used to highlight the following:
  - Dialog box, window and screen names
  - Drop-down list and list box names
  - Check box and radio button names
  - Icons on a screen
  - Key names on a keypad
  - Button names on a screen.
- Bullets (•) indicate:
  - Action items
  - Lists of alternatives
  - Lists of required steps that are not necessarily sequential.
- Sequential lists (for example, those that describe step-by-step procedures) appear as numbered lists.

Service Information

If you have a problem with your equipment, contact Customer Support for your region. Contact information is available at: www.zebra.com/support.

When contacting support, please have the following information available:

- Serial number of the unit (found on manufacturing label)
- Model number or product name (found on manufacturing label)
- Software type and version number

Customer Support responds to calls by email or telephone within the time limits set forth in support agreements.

If the problem cannot be solved by Customer Support, you may need to return the equipment for servicing and will be given specific directions. We are not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty. Remove the microSD card from the device before shipping for service.

If the device was purchased from a business partner, contact that business partner for support.

Software Versions

To determine the current software versions:

1. Go to **Settings**.
2. Touch **System**.
3. Touch **About phone**.

4. Scroll to view the following information:
   - **Model**
   - **Android version**
   - **Build number.**

To determine the device serial number, touch **About phone > Status**.

- **Serial number**

Getting Started

Unpacking

1. Carefully remove all protective material from the device and save the shipping container for later storage and shipping.
2. Verify that the following are included:
   - Mobile computer
   - Lithium-ion battery
   - Regulatory Guide.
3. Inspect the equipment for damage. If any equipment is missing or damaged, contact the Global Customer Support center immediately.
4. Prior to using the device for the first time, remove the protective shipping film that covers the scan window, display, and camera window.

MC3300x-G Features

Figure 1 MC3300x-G Front View

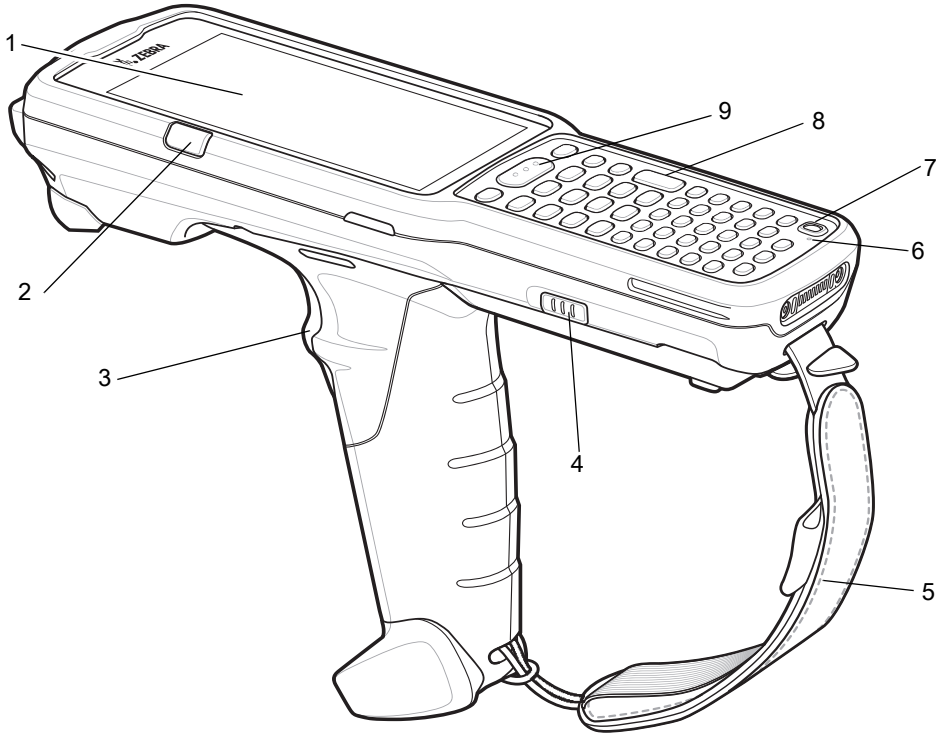


Table 2 *MC3300x-G Features - Front View*

Number	Item	Function
1	Display	Displays all information needed to operate the device.
2	Charge /Application Notification LED or Scan/Decode Status	Indicates the battery charge state while charging, an application notification was received, or the scan/decode status.
3	Trigger	Initiates data capture when a scan application is enabled.
4	Battery Release Latch	Release the battery from the device.
5	Hand Strap	Use for securely holding the device.
6	Microphone	Use for communications in Handset mode.

Table 2 *MC3300x-G Features - Front View (Continued)*

Number	Item	Function
7	Power Button	Press and hold to turn on the device. Press to turn on or off the screen. Press and hold to select one of these options: **Power off** - Turn off the device. **Reboot** - Reboot the device when software stops responding. **Airplane mode** - Disable all wireless connections. **Silent mode** - All notifications are disabled except for alarms.
8	Keypad	Use to enter data and navigate on screen functions.
9	Scan Button	Initiates data capture when a scan application is enabled.

Figure 2 MC3300x-G Back View

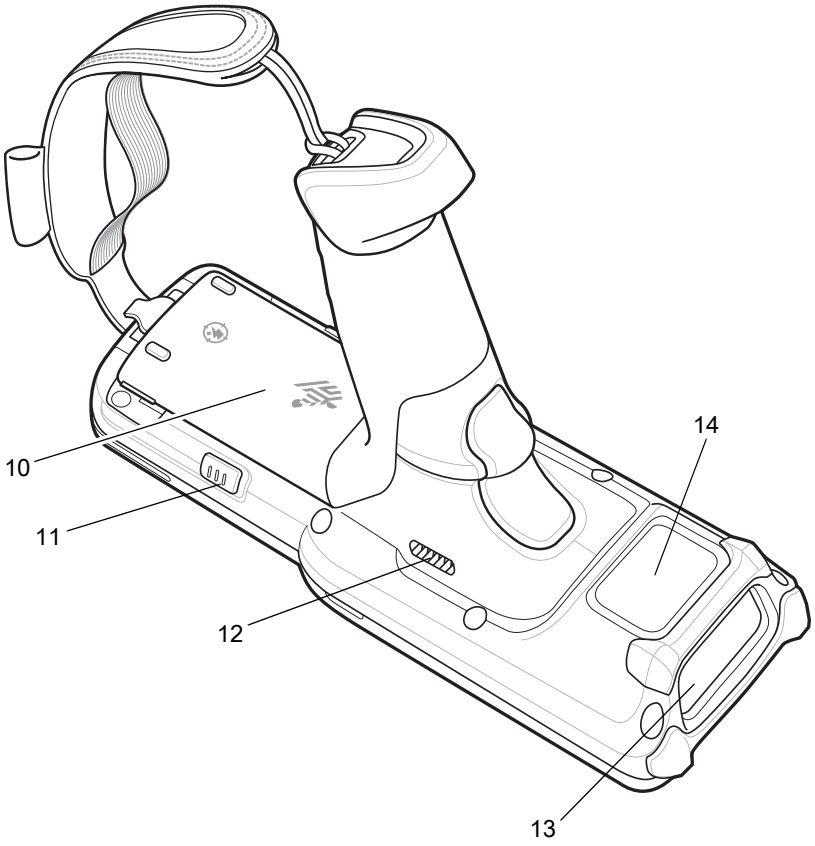


Table 3 *MC3300x-G Features - Back View*

Number	Item	Function
10	Battery	Provides power for operating the device.
11	Battery Release Latch	Release the battery from the device.

Table 3 *MC3300x-G Features - Back View (Continued)*

Number	Item	Function
12	Speaker	Provides audio output for video and music playback.
13	Scanner Exit Window	Provides data capture using the scanner.
14	NFC Antenna	Provides communication with other NFC-enabled devices.

MC3300x-R Features

Figure 3 MC3300x-R Front View

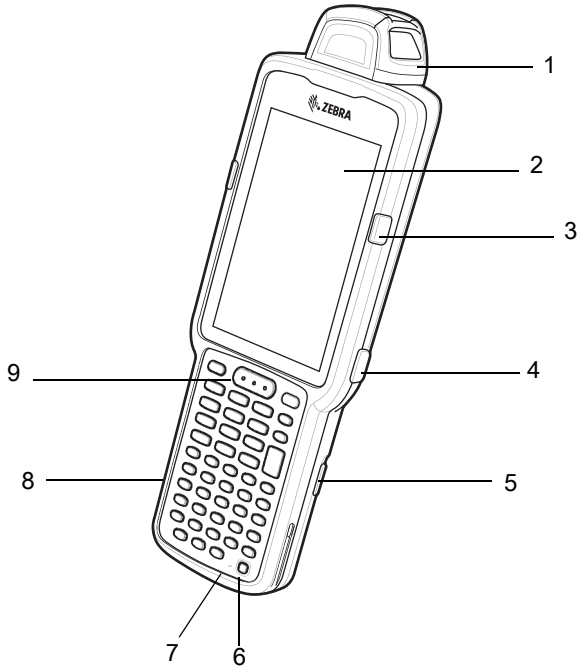


Table 4 *MC3300x-R Features - Front View*

Number	Item	Function
1	Rotating Turret	Rotates for easy scanning positions.
2	Display	Displays all information needed to operate the device.
3	Charge /Application Notification LED or Scan/Decode Status	Indicates the battery charge state while charging, an application notification was received, or the scan/decode status.
4	Side Key Scan Button	Initiates data capture when a scan application is enabled.
5	Battery Release Latch	Release the battery from the device.

Table 4 *MC3300x-R Features - Front View (Continued)*

Number	Item	Function
6	Power Button	Press and hold to turn on the device. Press to turn on or off the screen. Press and hold to select one of these options: **Power off** - Turn off the device. **Reboot** - Reboot the device when software stops responding. **Airplane mode** - Disable all wireless connections. **Silent mode** - All notifications are disabled except for alarms.
7	Microphone	Use for communications in Handset mode.
8	Keypad	Use to enter data and navigate on screen functions.
9	Scan Button	Initiates data capture when a scan application is enabled.

Figure 4 MC3300x-R Back View

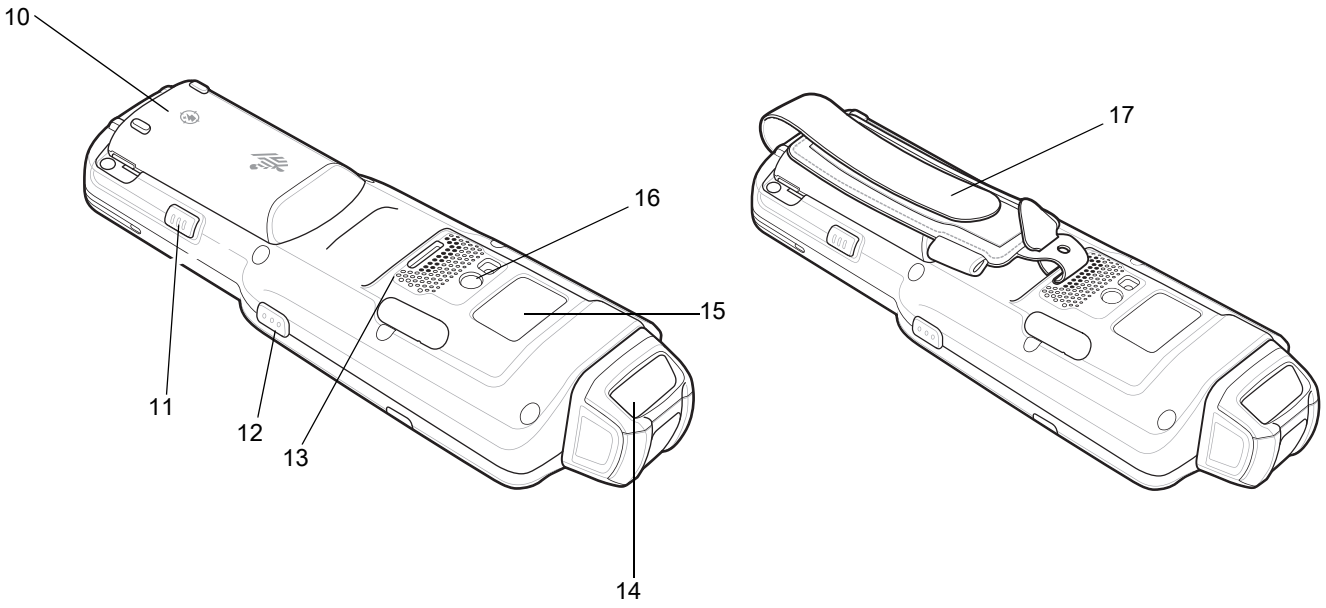


Table 5 *MC3300x-R Features - Back View*

Number	Item	Function
10	Battery	Provides power for operating the device.
11	Battery Release Latch	Release the battery from the device.
12	Side Key Scan Button	Initiates data capture when a scan application is enabled.

Table 5 *MC3300x-R Features - Back View (Continued)*

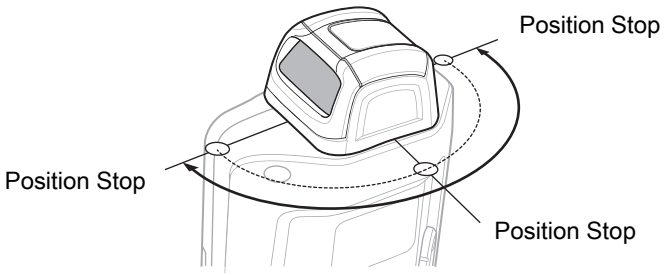
Number	Item	Function
13	Speaker	Provides audio output for video and music playback.
14	Scanner Exit Window	Provides data capture using the scanner.
15	NFC Antenna	Provides communication with other NFC-enabled devices.
16	Camera/Flash	Provides illumination for the camera.
17	Hand Strap	Use for securely holding the device.

Rotating Scan Turret

The MC3300x-R features a Rotating Turret with three position stops. This feature offers greater scanning flexibility.

CAUTION: Do not try to rotate the turret past the side position stops. Damage to device may occur.

Figure 5 MC3300x-R Rotating Turret



MC3300x-S Features

Figure 6 MC3300x-S Front View

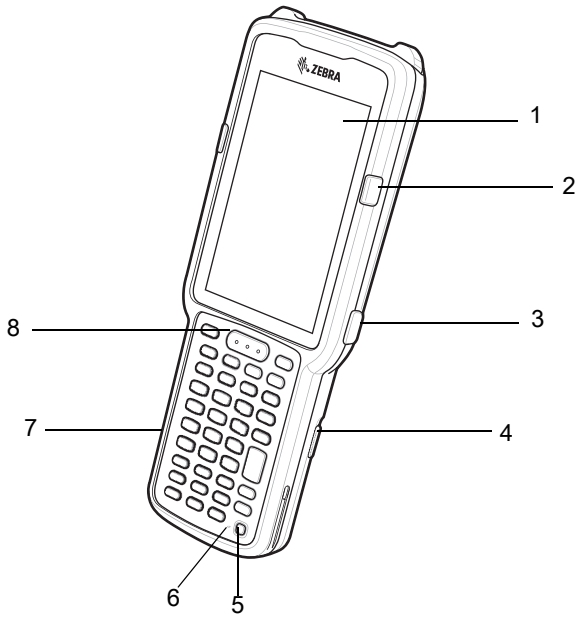


Table 6 *MC3300x-S Features - Front View*

Number	Item	Function
1	Display	Displays all information needed to operate the device.
2	Charge /Application Notification LED or Scan/Decode Status	Indicates the battery charge state while charging, an application notification was received, or the scan/decode status.
3	Side Key Scan Button	Initiates data capture when a scan application is enabled.
4	Battery Release Latch	Release the battery from the device.
5	Power Button	Press and hold to turn on the device. Press to turn on or off the screen. Press and hold to select one of these options: **Power off** - Turn off the device. **Reboot** - Reboot the device when software stops responding. **Airplane mode** - Disable all wireless connections. **Silent mode** - All notifications are disabled except for alarms.

Table 6 *MC3300x-S Features - Front View (Continued)*

Number	Item	Function
6	Microphone	Use for communications in Handset mode.
7	Keypad	Use to enter data and navigate on screen functions.
8	Scan Button	Initiates data capture when a scan application is enabled.

Figure 7 MC3300x-S Back View

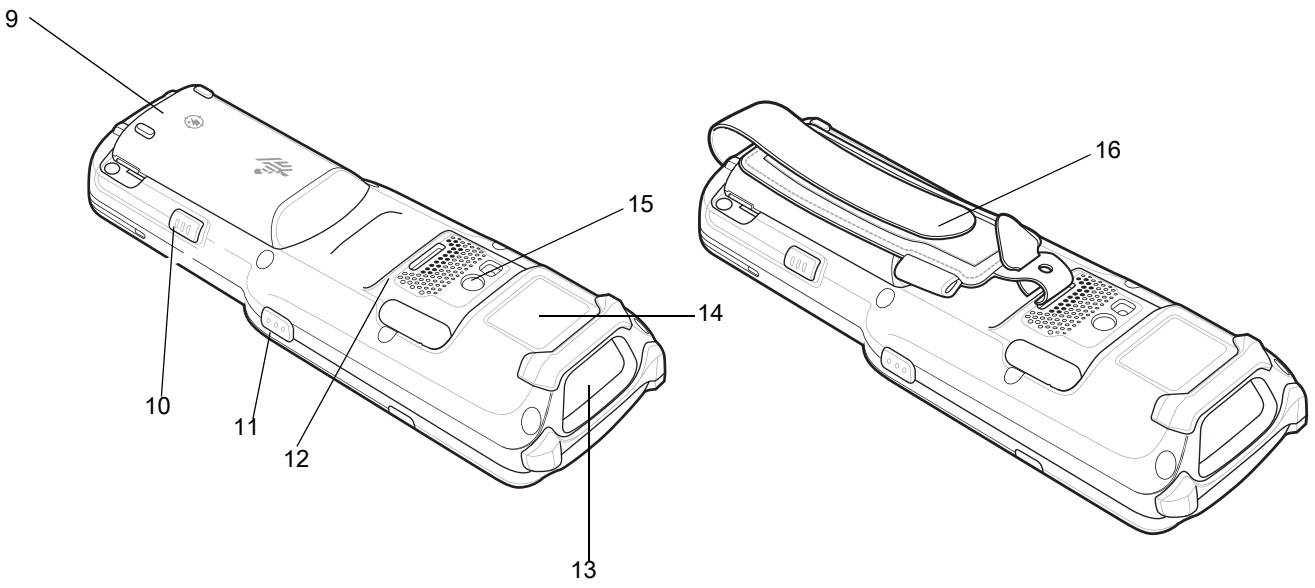


Table 7 *MC3300x-S Features - Back View*

Number	Item	Function
9	Battery	Provides power for operating the device.
10	Battery Release Latch	Release the battery from the device.
11	Side Key Scan Button	Initiates data capture when a scan application is enabled.
12	Speaker	Provides audio output for video and music playback.
13	Scanner Exit Window	Provides data capture using the scanner.
14	NFC Antenna	Provides communication with other NFC-enabled devices.
15	Camera/Flash	Provides illumination for the camera.
16	Hand Strap	Use for securely holding the device.

Setting Up the Device

To start using the device for the first time:

- Install a micro secure digital (SD) card (optional)
- Install the battery
- Charge the device
- Power on the device.

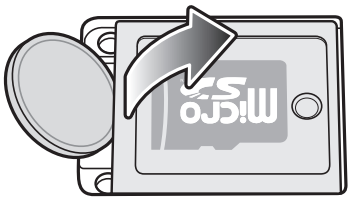
Installing a microSD Card

The microSD card slot provides secondary non-volatile storage. The slot is located under the battery pack. Refer to the documentation provided with the card for more information, and follow the manufacturer's recommendations for use.

CAUTION: Follow proper electrostatic discharge (ESD) precautions to avoid damaging the microSD card. Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

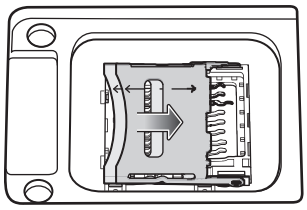
1. Using a coin or finger, remove the microSD card cover.

Figure 8 Remove microSD Card Cover



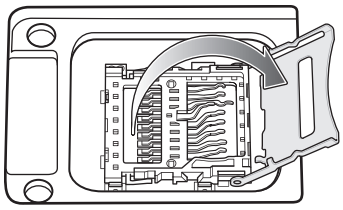
2. Slide the microSD card holder to the Open position.

Figure 9 Unlock microSD Card Holder



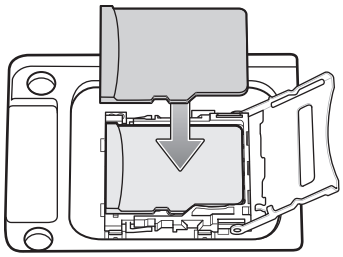
3. Lift the microSD card holder.

Figure 10 Lift microSD Card Holder



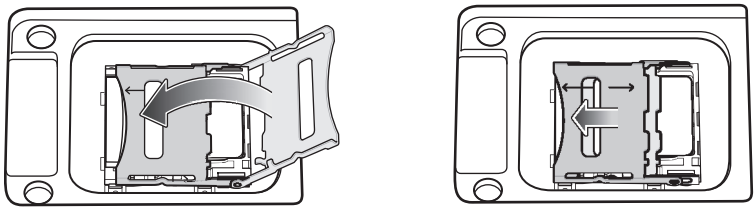
4. Place the microSD card into the contact area with the contacts facing down.

Figure 11 Install microSD Card



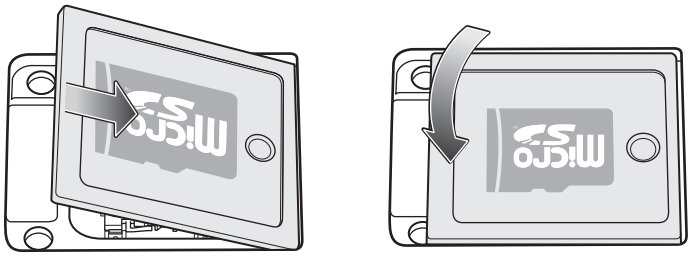
5. Close the microSD card holder and slide the microSD card holder to the Lock position.

Figure 12 Lock microSD Card Holder



6. Replace the microSD card cover and ensure that it is installed properly.

Figure 13 Replace Cover



Installing the MC3300x-G Battery

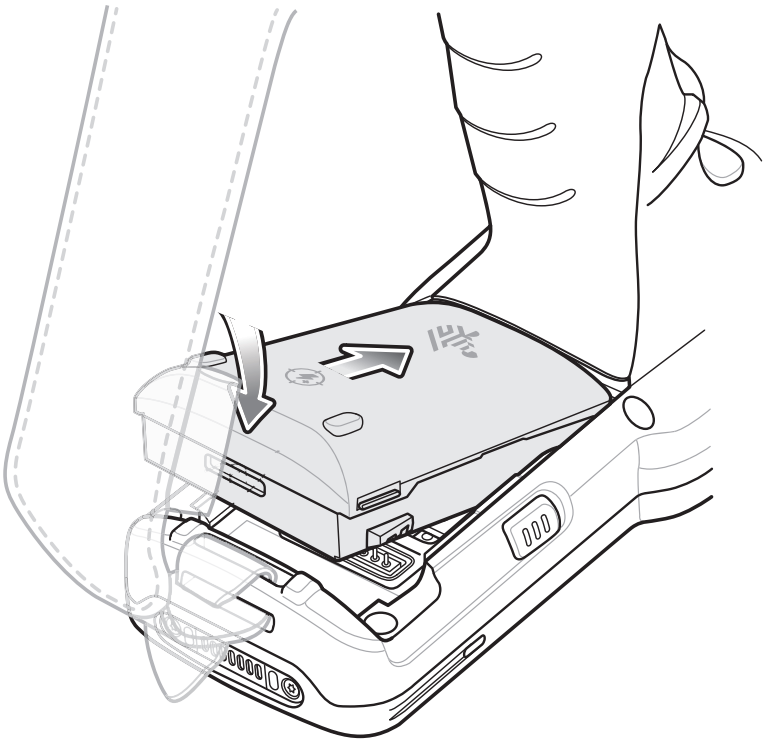
The MC3300x-G is compatible with the following batteries:

- MC3300x 5200 mAh PowerPrecision+ extended battery.
- MC32N0 5200 mAh PowerPrecision extended battery.

To install the battery:

1. Loosen the hand strap, if needed.
2. Align the battery into the battery compartment.

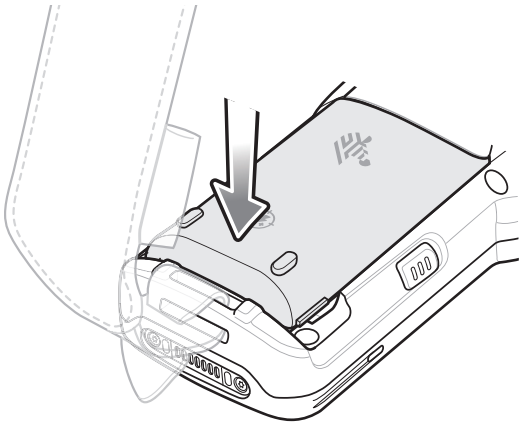
Figure 14 Inserting the Battery



3. Rotate the bottom of the battery into the battery compartment.

4. Press battery down firmly. Ensure that both battery release buttons on the sides of the MC3300x-G return to the home position.

Figure 15 Press Battery Down



5. Tighten the hand strap, if needed.
6. Press the Power button to turn on the device.

Installing the MC3300x-R/S Battery

The MC3300x-R/S is compatible with the following batteries:

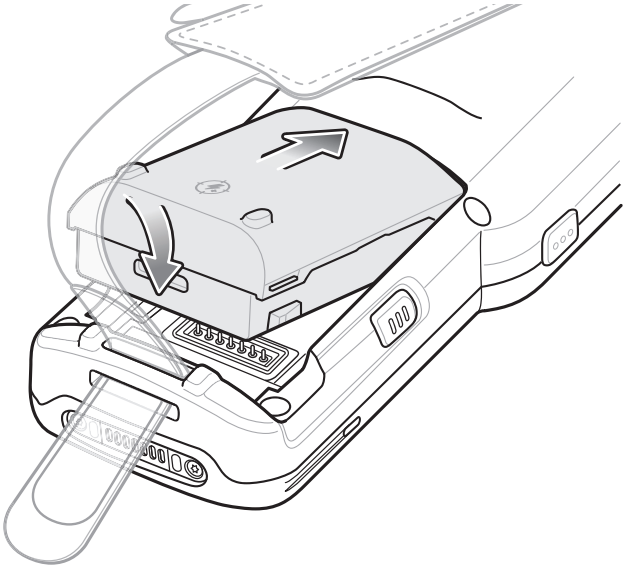
- MC3300x 2740 mAh PowerPrecision+ standard battery.
- MC3300x 5200 mAh PowerPrecision+ extended battery.
- MC32N0 2740 mAh PowerPrecision standard battery.
- MC32N0 5200 mAh PowerPrecision extended battery.

To install the battery:

1. Loosen the hand strap, if needed.

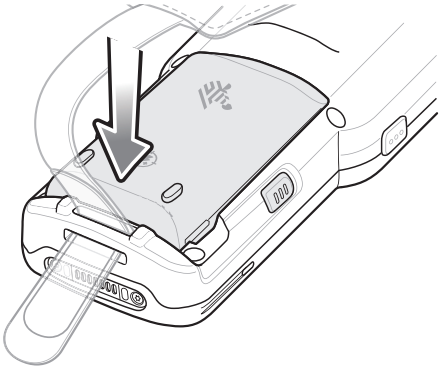
2. Align the top of the battery into the battery compartment.

Figure 16 Inserting the Battery



3. Rotate the bottom of the battery into the battery compartment.
4. Press battery down firmly. Ensure that both battery release buttons on the sides of the MC3300x-R/S return to the home position.

Figure 17 Press Battery Down



5. Tighten the hand strap, if needed.
6. Press the Power button to turn on the device.

Charging the Battery

CAUTION: Ensure that you follow the guidelines for battery safety described in Battery Safety Guidelines on page 214.

Use the mobile computer cradles, cables and spare battery chargers to charge the mobile computer main battery.

The main battery can be charged before insertion into the mobile computer or after it is installed. There are two main batteries for the MC3300x, the 2740 mAh PowerPrecision+ standard battery (1X) and the 5200 mAh PowerPrecision+ extended battery (2X). The MC3300x-G is compatible with the 5200 mAh PowerPrecision+ extended battery. The MC3300x-R/S are compatible with both the 2740 mAh PowerPrecision+ standard battery and the 5200 mAh PowerPrecision+ extended battery. Use one of the spare battery chargers to charge the main battery (out of the mobile computer) or one of the cradles to charge the main battery while it is installed in the mobile computer.

Before using the mobile computer for the first time, fully charge the main battery until the green Charge LED indicator remains lit and charge the battery using a cable or a cradle with the appropriate power supply. For information about the accessories available for the MC3300x, see Accessories. The 2740 mAh PowerPrecision+ standard battery fully charges (0% to 90% capacity) in less than 2.2 hours and the 5200 mAh PowerPrecision+ extended battery fully charges (0% to 90% capacity) in less than 3.8 hours.

The MC3300x retains data in memory for at least five minutes when the mobile computer's main battery is removed.

When the main battery reaches a very low battery state, the battery retains data in memory for at least 15 hours.

Batteries must be charged within the 0° to +40° C (32° to 104° F) ambient temperature range.

The following accessories can be used to charge batteries:

- Cradles (and a power supply):
  - 1-Slot USB Charge Cradle
  - 5-Slot Charge Only ShareCradle
  - 5-Slot Ethernet ShareCradle
  - 5-Slot Charge ShareCradle + 4-Slot Spare Battery Charger
  - 5-Slot Ethernet ShareCradle + 4-Slot Spare Battery Charger.
- Cables (and a power supply):
  - USB Charge Cable.
- Spare Battery Chargers (and a power supply):
  - 4-Slot Spare Battery Charger
  - 20-Slot Spare Battery Charger.

To charge the mobile computer using the cradles:

1. Insert the mobile computer into a cradle. See Accessories for accessory setup.

2. The mobile computer starts to charge automatically. The Charge LED Indicator indicates the charge status. See the table below for charging indications.

To charge the mobile computer using the cables:

1. Connect the MC3300x Communication/Charge Cable to the appropriate power source and connect to the mobile computer. See Accessories for accessory setup.

2. The mobile computer starts to charge automatically. The Charge LED Indicator indicates the charge status.

Charging Indicators

Table 8 *LED Charge Indicators*

Status	Indications
Off	• The battery is not charging. • The battery is not inserted correctly in the cradle or connected to a power source. • Cradle is not powered.
Slow Blinking Amber Every 3 seconds	• Battery is charging, but the battery is fully depleted and does not yet have sufficient charge to power the device.
Solid Amber	• Battery is charging.
Solid Green	• Battery charging is complete.
Fast Blinking Red 2 blinks/second	Charging error, e.g.: • Temperature is too low or too high. • Charging has gone on too long without completion (typically eight hours).
Solid Red	• Spare battery is charging and battery is at the end of useful life. • Charging complete and battery is at the end of useful life.

The MC3300x 2740 mAh PowerPrecision+ standard battery charges from 0% to 90% in less than 2.2 hours at room temperature.

The MC3300x 5200 mAh PowerPrecision+ extended battery charges from 0% to 90% in less than 3.8 hours at room temperature.

The MC32N0 2740 mAh PowerPrecision standard battery charges from 0% to 90% in less than 3 hours at room temperature.

The MC32N0 5200 mAh PowerPrecision extended battery charges from 0% to 90% in less than 5.5 hours at room temperature.

Backup Power

The device is equipped with a supercapcitator (supercap) to provide backup power to the device when the main battery is removed. The supercap will retain random access memory (RAM) data in memory for approximately five minutes after the main battery is removed during Hot Swap.

IMPORTANT: The supercap is automatically charged from the main battery and requires approximately ten minutes to fully charge.

Charging Temperature

Charge batteries in ambient temperatures from 0°C to 40°C (32°F to 104°F) or up to 45°C (113°F) as reported by the battery. To view battery temperature, go to **Settings > System > About phone > Battery information**.

The device or cradle always performs battery charging in a safe and intelligent manner. At higher temperatures (for example, approximately +37°C (+98°F)) the device or cradle may for small periods of time alternately enable and disable battery charging to keep the battery at acceptable temperatures. The device and cradle indicates when charging is disabled due to abnormal temperatures via its LED.

Charging Spare Batteries

See the Accessories section for information on using accessories to charge spare batteries.

Hot Swap Mode

The device provides a Hot Swap mode where the user can replace the battery without powering off the device. When the user removes the battery, the display turns off and the device enters a low power state while in Hot Swap mode. In Hot Swap mode, the device retains RAM data for approximately 5 minutes. Replace the battery within 5 minutes to preserve memory persistence. If the user does not install a charged battery within 5 minutes, data in RAM will be lost. During Hot Swap mode, Wi-Fi and Bluetooth remain connected for 30 seconds. If the battery is not inserted within 30 seconds, Wi-Fi is disabled and then re-enabled when the device comes out of Hot Swap mode and Bluetooth is reset when the device comes out of Hot Swap mode.

IMPORTANT: The supercap requires time to recharge after performing a Hot Swap or after the main battery is fully depleted. Hot Swap mode will not retain data unless the supercap is fully charged.

Zebra Visibility Services

The device captures and provides device analytics to a system administrator. The first time the device boots (or after a Factory reset), the **Zebra Services** agreement screen displays.

Figure 18 Zebra Services

Touch the **Device Data** switch to disable the device from sending analytics data.

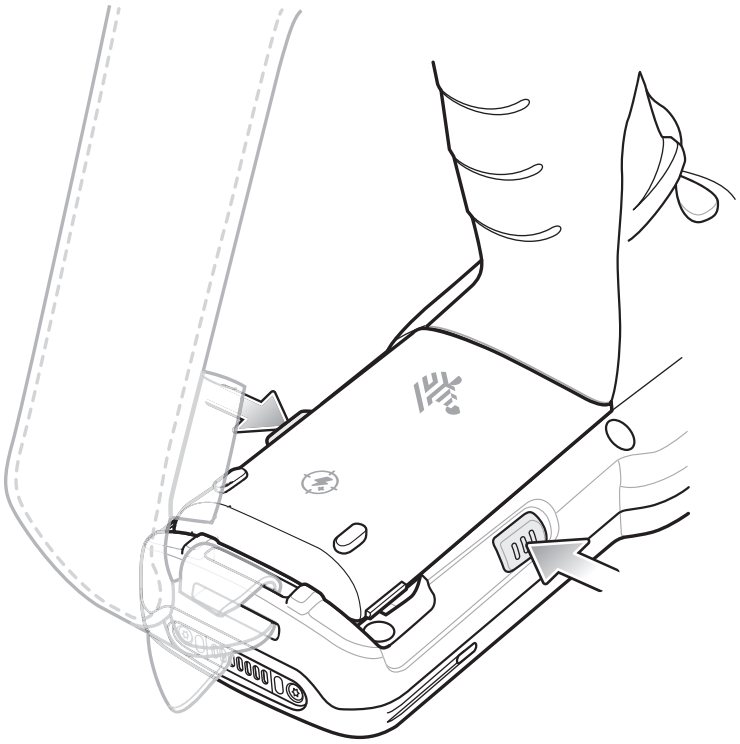
Replacing the Battery in the MC3300x-G

To replace the battery:

1. Push in the two Battery Release buttons.

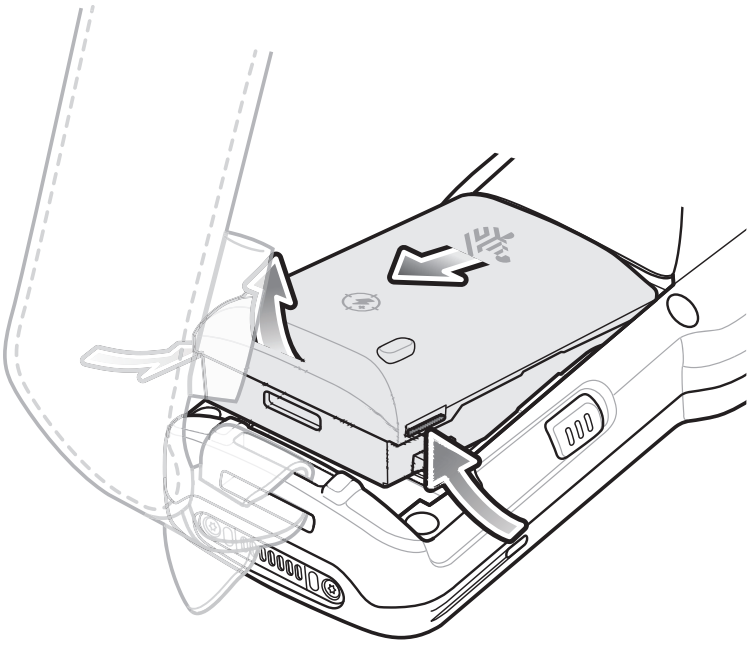
   The battery ejects slightly. With Hot Swap mode, when the user removes the battery, the display turns off and the device enters a low power state. The MC3300x-G retains RAM data for approximately five minutes. Replace the battery within five minutes to preserve memory persistence.

Figure 19 Release Battery



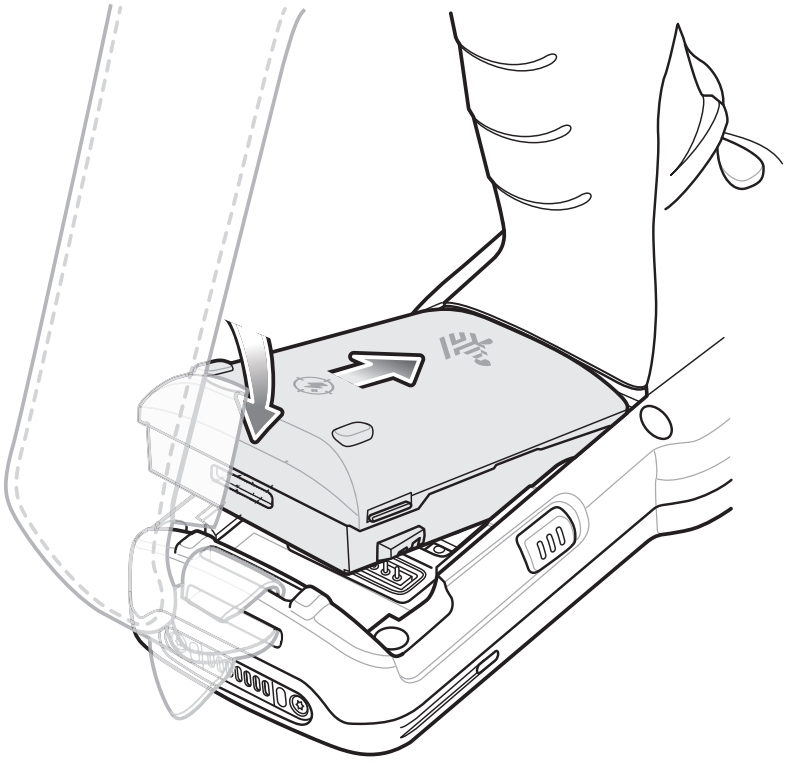
2. Remove the battery from the battery compartment.

Figure 20 Remove Battery



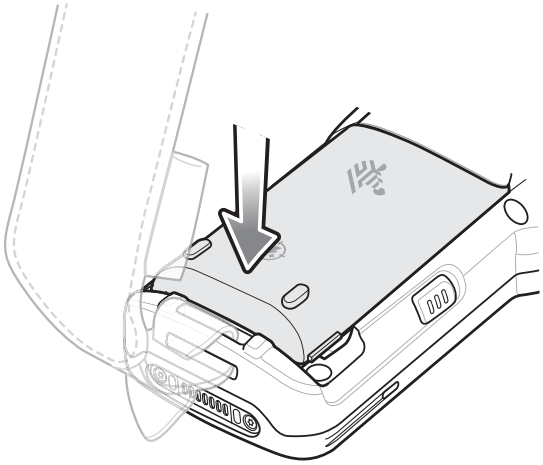
3. Align the battery into the battery compartment.

Figure 21 Inserting the Battery



4. Rotate the bottom of the battery into the battery compartment.
5. Press battery down firmly. Ensure that both battery release buttons on the sides of the MC3300x-G return to the home position.

Figure 22 Press Battery Down



6. Press the Power button to turn on the device.

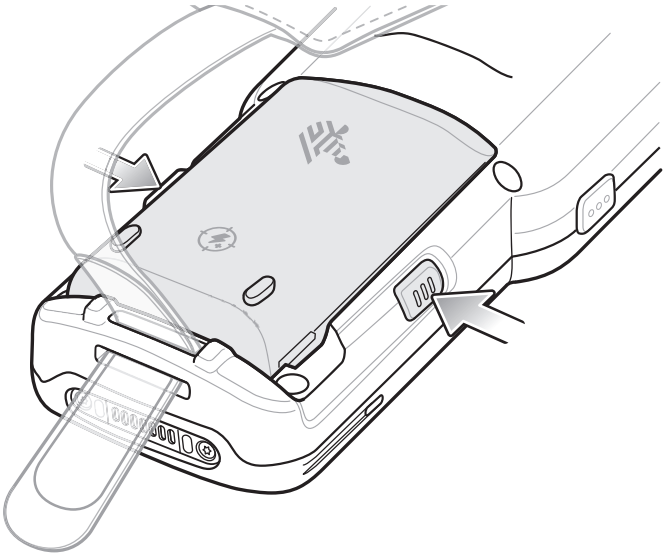
Replacing the Battery in the MC3300x-R/S

To replace the battery:

1. Push in the two Battery Release buttons.

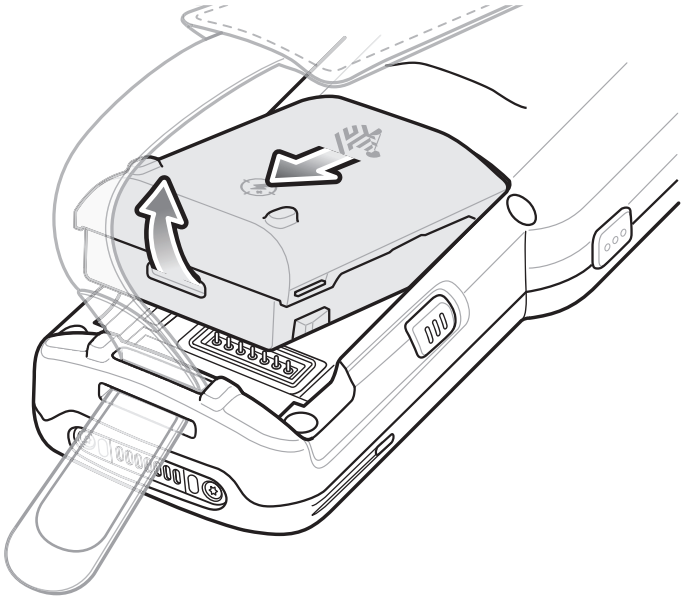
   The battery ejects slightly. With Hot Swap mode, when the user removes the battery, the display turns off and the device enters a low power state. The MC3300x-R/S retains RAM data for approximately five minutes. Replace the battery within five minutes to preserve memory persistence.

Figure 23 Release Battery



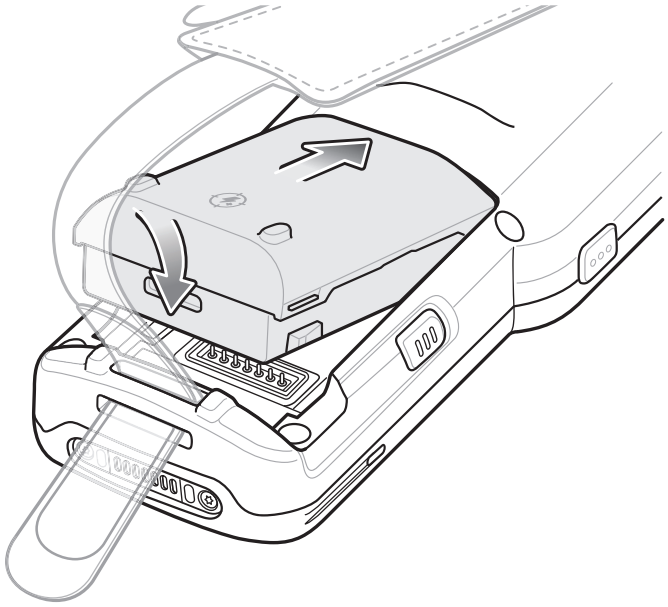
2. Remove the battery from the battery compartment.

Figure 24 Remove Battery



3. Align the battery into the battery compartment.

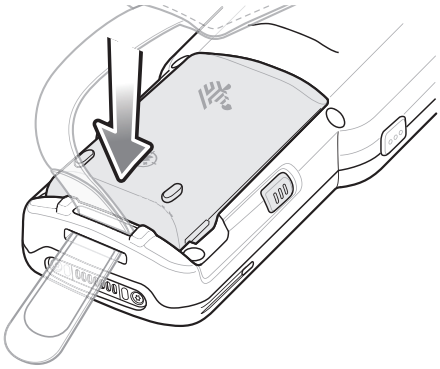
Figure 25 Inserting the Battery



4. Rotate the bottom of the battery into the battery compartment.

5. Press battery down firmly. Ensure that both battery release buttons on the sides of the MC3300x-R/S return to the home position.

Figure 26 Press Battery Down



6. Press the Power button to turn on the device.

Real-Time Clock Backup

The device provides a Real-time Clock (RTC) backup feature. After boot-up, the device saves the system time in a file in persistent storage. When the device re-boots, it compares the system time to the time saved in a file. If the system time in not the latest, it restores the time from the file.

Using the Device

Home Screen

Turn on the device to display the Home screen. Depending on the configuration, the Home screen may appear different. Contact your system administrator for more information.

After a suspend or screen time-out, the Home screen displays with the lock slider. Touch the screen and slide up to unlock. For screen locking information, see Un-Locking the Screen.

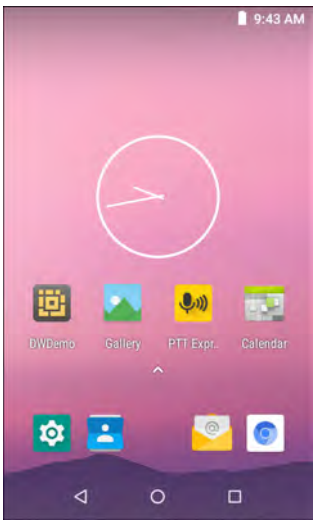
The Home screen provides additional screens for placement of widgets and shortcuts. Swipe the screen left or right to view the additional screens.

NOTE:

By default, non-GMS devices do not have the same icons on the Home screen as GMS. Icons are shown below for example only.

Home screen icons can be configured by the user and may look different than shown.

GMS



AOSP

The Home screen consists of the following:

Table 9 *Home Screen Items*

Item	Description
1 — Status Bar	Displays the time, status icons (right side), and notification icons (left side). For more information see Status Bar on page 40 and Managing Notifications on page 42.
2 — Widgets	Launches stand-alone applications that run on the Home screen.
3 — Shortcut Icons	Opens applications installed on the MC3300x.
4 — Folder	Contains apps.
5 — Settings Icon	Opens the Settings window.
6 — Back	Displays the previous screen.
7 — Home	Displays the Home screen.
8 — Recent Button	Displays recently used applications.
9 — All Apps Icon	Opens the APPS window.

Setting Home Screen Rotation

By default the **Home** screen rotation is disabled.

To enable **Home** screen rotation:

1. Touch and hold anywhere on the **Home** screen until the options appear.
2. Touch **Home settings**.
3. Touch the **Allow Home screen rotation** switch.
4. Touch ◯.
5. Rotate the device.

Status Bar

The Status bar displays the time, notification icons (left side), and status icons (right side).

NOTE: Some Status icons may not appear in the Status bar if there are too many icons to display.

Figure 27 Notification and Status Icons

If there are more notifications than can fit in the Status bar, a dot displays indicating that more notifications exist. Swipe down from the Status bar to open the Notification panel and view all notifications and status.

Status Icons

Table 10 *Status Icons*

Icon	Description
	Alarm is active.
	Main battery is fully charged.
	Main battery is partially drained.
	Main battery charge is low.
	Main battery charge is very low.
	Main battery is charging.
	All sounds, except media and alarms, are silenced and vibrate mode is active.
	Do Not Disturb mode active.
	Airplane Mode is active. All radios are turned off.
	Bluetooth is on.
	The device is connected to a Bluetooth device.
	Connected to a Wi-Fi network.
	Not connected to a Wi-Fi network or no Wi-Fi signal.
	Connected to an Ethernet network.
	Speakerphone enabled.
	Indicates that all sounds except media and alarms are silenced.
	Indicates that the Orange key is locked.
	Indicates that the Blue key is pressed.
A	Indicates that the ALT key is pressed.
C	Indicates that the CTRL key is pressed.
	Indicates that the Shift key is pressed.
	Indicates that the Shift key is locked.
	Indicates that a BT headset is connected to the MC3300x.

Notification Icons

Table 11 *Notification Icons*

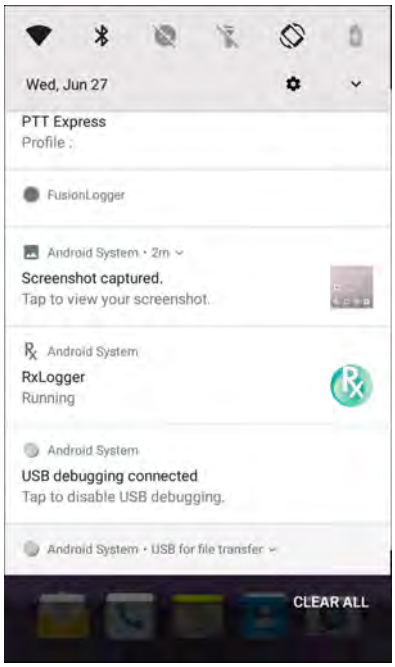
Icon	Description
	Main battery is low.
	More notifications are available for viewing.
	Data is syncing.
	Indicates an upcoming event. Non-GMS devices only.
	Indicates an upcoming event. GMS devices only.
	Open Wi-Fi network is available.
	Song is playing.
	Problem with sign-in or sync has occurred.
	Device is uploading data.
	Device is downloading data when animated and download is complete when static.
	Device is connected to or disconnecte • ɔm virtual private network (VPN).
	Preparing internal storage by checking it for errors.
	USB debugging is enabled on the device.
	Headset is connected to the device.
	PTT Express Voice client status. See the PTT Express PTT Notification Icons for a complete list.
	Indicates that RxLogger app is running.
	Indicates the RS6000 is connected to the device.
	Indicates the RS507 or RS6000 is connected to the device in HID mode.

Managing Notifications

Notification icons report the arrival of new messages, calendar events, alarms, and ongoing events. When a notification occurs, an icon appears in the Status bar with a brief description. See Notification Icons for a list of possible notification icons and their description. Open the Notification panel to view a list of all the notifications.

To open the Notification panel, drag the Status bar down from the top of the screen.

Figure 28 Notification Panel



To respond to a notification, open the Notification panel and then touch a notification. The Notification panel closes and the corresponding app opens.

To clear all notifications, open the Notification panel and then touch **CLEAR ALL**. All event-based notifications are removed. Ongoing notifications remain in the list.

To close the Notification panel, swipe the Notification panel up.

Quick Access Panel

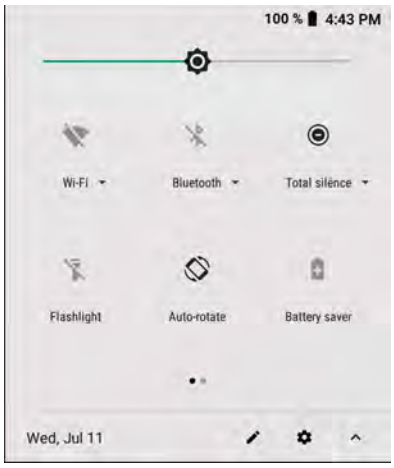
Use the Quick Access panel to access frequently used settings (for example, Airplane mode).

To see the full Quick Access panel:

- If the device is locked, swipe down once.
- If the device is unlocked, swipe down once with two fingers, or twice with one finger.
- If the Quick Settings bar is open, touch the Down arrow.

- If the Notification panel is open, swipe down from the Quick Settings bar.

Figure 29 Quick Access Panel



NOTE: Not all icons are pictured. Icons may vary.

To change a setting, touch the icon:

- Display brightness - Use the slider to decrease or increase the brightness of the screen.
- Wi-Fi network - Turn Wi-Fi on or off. To open Wi-Fi settings, touch the Wi-Fi network name.
- Bluetooth settings - Turn Bluetooth on or off. To open Bluetooth settings, touch **Bluetooth**.
- Battery power - Indicates percentage of battery power remaining. Touch to view battery usage.
- Do not disturb - Control how and when to receive notifications.
- Airplane mode - Turn Airplane mode on or off. When Airplane mode is on the device does not connect to Wi-Fi or Bluetooth.
- Auto-rotate - Lock the device's orientation in portrait or landscape mode or set to automatically rotate.
- Flashlight - Turn flashlight on or off. Turn camera flash on or off.

  The thermal protection safety feature for the camera provides the following behavior if the temperature range is 40°C or above:

  - If the flashlight is kept on for a certain period of time, it is automatically turned off and cannot be turned back on for a period of time until it has cooled off.
  - During the cooling off period, the camera cannot be turned on. If you attempt to use the camera, a message displays indicating to try again after a period of time.
- Cast - Share phone content on Chromecast or a television with Google Cast built-in. Touch cast screen to display a list of devices, then touch a device to begin casting.

Editing Icons on Quick Settings

The first several setting tiles from the Quick Access panel become the Quick Settings bar. Open the Quick Access panel and touch ✎ to edit, add, or remove settings tiles.

Battery Management

NOTE: Prior to checking the battery charge level, remove the device from any AC power source (cradle or cable).

To check the charge status of the main battery, open **Settings** and touch **System > About phone > Battery Information**.

IMPORTANT: At temperatures below 0°C, the Battery level may report a reduced value. This is normal due to temperature compensation.

Battery present status indicates if the battery is present and **Battery level** lists the battery charge (as a percentage of fully charged). The battery percentage can also be viewed next to the battery icon in the quick access panel. Swipe down with two fingers from the status bar to open the quick access panel.

Monitoring Battery Usage

The **Battery** screen provides battery charge details and power management options to extend battery life.

1. Go to **Settings**.
2. Touch **Battery**.

To display battery information and power management options for a specific app:

1. Go to **Settings**.
2. Touch **Apps & notifications**.
3. Touch an app.
4. Touch **Advanced > Battery**.

Different apps display different information. Some apps include buttons that open screens with settings to adjust power use. Use the **DISABLE** or **FORCE CLOSE** buttons to turn off apps that consume too much power.

Low Battery Notification

When the battery charge drops below 23% (MC3300x 2740 mAh PowerPrecision+ standard battery) or 15% (MC3300x 5200 mAh PowerPrecision+ extended battery) to a low level, the MC3300x displays a notice to connect the MC3300x to power. The user should charge the battery using one of the charging accessories.

When the battery charge drops below 15% (MC3300x 2740 mAh PowerPrecision+ standard battery) or 8% (MC3300x 5200 mAh PowerPrecision+ extended battery) to a very low level, the MC3300x displays a notice to connect the MC3300x to power. The user should charge the battery using one of the charging accessories.

When the battery charge drops below 8% (MC3300x 2740 mAh PowerPrecision+ standard battery) or 4% (MC3300x 5200 mAh PowerPrecision+ extended battery), the MC3300x goes into critical suspend mode to save data. The screen turns off.

The user must replace the battery or charge the MC3300x using one of the charging accessories to retain data.

Battery Optimization

Observe the following battery saving tips:

- Set the screen to turn off after a short period of non-use.
- Reduce screen brightness.
- Turn off all wireless radios when not in use.
- Turn off automatic syncing for Email, Calendar, Contacts, and other apps.
- Minimize use of apps that keep the device from suspending, for example, music and video apps.

Interactive Sensor Technology

The MC3300 contains sensors that monitor movement and orientation:

- Gyroscope - Measures angular rotational velocity to detect rotation of the device.
- Accelerometer - Measures the linear acceleration of movement to detect the orientation of the device.

In order to take advantage of these sensors, applications use API commands. Refer to the Zebra Android EMDK for more information.

Suspend Mode

The device goes into suspend mode when you press the Power button or after a period of inactivity (set in the Display settings window).

To wake the device from Suspend mode, press the Power button. The Lock screen displays. Swipe the screen up to unlock. If the Pattern screen unlock feature is enabled, the Pattern screen appears instead of the Lock screen. If the PIN or Password screen unlock feature is enabled, enter the PIN or password after unlocking the screen. See Un-Locking the Screen.

NOTE: If you enter the PIN, password, or pattern incorrectly five times, you must wait 30 seconds before trying again. If you forget the PIN, password, or pattern contact your system administrator.

USB Communication

Connect the device to a host computer using a USB cable or a USB cradle to transfer files between the device and the host computer.

When connecting the device to a host computer, follow the host computer's instructions for connecting and disconnecting USB devices, to avoid damaging or corrupting files.

Transferring Files

NOTE: Use Transfer files to copy files between the device (internal memory or microSD card) and the host computer.

1. Connect a USB cable to the device or place the device into a USB cradle.
2. Pull down the Notification panel and touch **USB charging this device**.
   By default, **Charge this device** is selected.
3. Touch **Transfer files**.
4. On the host computer, open a file explorer application.
5. Locate the **device** as a portable device.

6. Open the **SD card** or the **Internal storage** folder.
7. Copy files to and from the device or delete files as required.

Transferring Photos

To transfer photos using Photo Transfer Protocol:

NOTE: Use Photo Transfer Protocol (PTP) to copy photos from either the microSD card or internal memory to the host computer.

1. Connect USB cable to the device or place the device into a USB cradle. See Accessories for setup information.
2. Pull down the Notification panel and touch **USB charging this device**.
3. Touch **Transfer photos (PTP)**.
4. On the host computer, open a file explorer application.
5. Open the **SD card** or the **Internal storage** folder.
6. Copy or delete photos as required.

Disconnect from the Host Computer

To disconnect the device from the host computer:

CAUTION: Carefully follow the host computer's instructions to unmount the microSD card and disconnect USB devices correctly to avoid losing information.

1. On the host computer, unmount the device.
2. Remove the USB from the device or remove the device from the cradle.

Settings

Accessing Settings

Access Settings in any of the following ways:

- Swipe down with two fingers from the top of the Home screen to open the Quick Access panel and touch ⚙.
- Double-swipe down from the top of the Home screen to open the Quick Access panel and touch ⚙.
- Swipe up from the bottom of the Home screen to open APPS and touch **Settings**.

Display Settings

Use Display settings to change the screen brightness, enable night light, change the background image, enable screen rotation, set sleep time, and change font size.

Setting the Screen Brightness

To manually set the screen brightness using the touchscreen:

1. Swipe down with two fingers from the top of the Home screen to open the Quick Access panel.
2. Slide the icon to adjust the screen brightness level.

To let the device automatically adjust the screen brightness using the built-in light sensor:

1. Go to **Settings**.
2. Touch **Display**.
3. If disabled, touch **Adaptive brightness** to automatically adjust the brightness.
   By default, **Adaptive brightness** is enabled. Toggle the switch to disable.
4. Touch ◯.

Setting Night Light

The Night Light setting tints the screen amber, making the screen easier to look at in low light.

To enable night light:

1. Go to **Settings**.

2. Touch **Display**.
3. Touch **Night Light**.
4. Touch **Schedule**.
5. Select one of the schedule values:
   - None (default)
   - Turns on at custom time
   - Turns on from sunset to sunrise.
6. Touch **Status**.
   By default, **Night Light** is disabled. Toggle the switch to enable.
7. Adjust the tint using the **Intensity** slider.
8. Touch ◯.

Setting Screen Rotation

By default, screen rotation is enabled.

To disable screen rotation:

1. Go to **Settings**.
2. Touch **Display** > **Advanced**.
3. Touch **Auto-rotate screen**.

NOTE: To change the Home screen rotation, see Setting Home Screen Rotation.

4. Touch ◯.

Setting Screen Timeout

To set the screen sleep time:

1. Go to **Settings**.
2. Touch **Display** > **Advanced** > **Sleep**.
3. Select one of the sleep values.
   - **15 seconds**
   - **30 seconds**
   - **1 minute** (default)
   - **2 minutes**
   - **5 minutes**
   - **10 minutes**
   - **30 minutes** (default)**.**
4. Touch ◯.

Ambient Display

The Ambient display setting wakes the screen when notifications are received.

To disable ambient display:

1. Go to **Settings**.
2. Touch **Display** > **Advanced**.
3. Touch **Ambient display**.
4. In the **When to show** section, enable or disable an option using the switch.
5. Touch ◯.

Setting Font Size

To set the size of the font in system apps:

1. Go to **Settings**.
2. Touch **Display** > **Advanced**.
3. Touch **Font size**.
4. Select one of the font size values.
   - Small
   - Default
   - Large
   - Largest.
5. Touch ◯.

Setting Display Size

By default, display size is set to default.

To change the display size:

1. Go to **Settings**.
2. Touch **Display** > **Advanced**.
3. Touch **Display size**.
4. Touch - and + to change the display size.
   - Small
   - Default
   - Large.
5. Touch ◯.

Touch Panel Mode

The device display is able to detect touches using a finger, a conductive-tip stylus, or gloved finger.

NOTE: A glove can be made of medical latex, leather, cotton, or wool.
For optimal performance use a Zebra certified stylus.

1. Go to **Settings**.
2. Touch **Display** > **Advanced**.
3. Touch **Touch panel mode**.
4. Select:
   a. **Glove and Finger (Screen Protector off)** to use a finger or a gloved finger on the screen without a screen protector.
   b. **Stylus and Finger** (**Screen Protector off)** to use a finger or a stylus on the screen without a screen protector.
   c. **Finger Only** to use a finger on the screen.
   d. **Glove and Finger (Screen Protector on)** to use a finger or a gloved finger on the screen with a screen protector.
   e. **Stylus and Finger (Screen Protector on)** to use a finger or a stylus on the screen with a screen protector.
5. Touch ◯.

General Sound Setting

Use the **Sound** settings to configure media and alarm volumes.

To access sound settings:

1. Go to **Settings**.
2. Touch **Sound**.
3. Touch an option to set sounds.

Sound Options

- **Zebra volume controls**
  - **Ring volume** - Controls the ringtone volume.
  - **Media volume** - Controls the music, games, and media volume.
  - **Alarm volume** - Controls the alarm clock volume.
  - **Notifications volume** - Controls the notification volume.
  - **Scanner volume** - Controls the scanner volume.
  - **Volume presets**
    - - Mutes the ring, notifications, and scanner so that the device does not make sounds or vibrate.
    - - All sounds except media and alarms are silenced and vibrate mode is active.
    - - Enables all sounds at the user defined levels.

- Also vibrate for calls - Switch on or off.
- **Do Not Disturb preferences** - Mutes some or all sounds and vibrations.
  - **Priority only allows** - Use to set the priorities for the following:
    - **Reminders** - Switch on or off.
    - **Events** - Switch on or off.
    - **Alarms** - This is always enabled.
    - **Messages** - Choose to allow messages from anyone, starred contacts, any contact, or none. To star contacts, use the Contacts app.
    - **Calls** - Choose to allow calls from anyone, starred contacts, any contact, or none. To star contacts, use the Contacts app.
    - **Repeat callers** - Choose whether or not the phone rings if the same person calls again within 15 minutes.
  - **Block visual disturbances**
    - **Block when screen is on** - This option prevents notifications from displaying over the screen (peeking) while you are actively using the device.
    - **Block when screen is off** - This option prevents notifications from turning on the screen or pulsing the LED light when a new notification is received while you are not using the device.
  - **Automatic rules** - Choose when to automatically silence the device. Touch a default rule, such as Weekend or Weeknight, or create your own rule. To create your own rule, tap **Add more** and then **Time rule**.
- **Advanced** - Touch to display advanced sound options.
  - **Default notification sound** - Touch to select a sound to play for all system notifications.
  - **Default alarm sound** - Touch to select a sound to play for alarms.
  - **Other sounds and vibrations**
    - **Screen locking sounds** - Play a sound when locking and unlocking the screen (default – enabled).
    - **Charging sounds** - Not applicable.
    - **Touch sounds** - Play a sound when making screen selections (default – enabled).
    - **Vibrate on tap** - Vibrate the device when making screen selections (default – disabled).
  - **Emergency alerts** - Touch to configure emergency broadcast settings and notifications.

Setting Device Advertisement

Device Advertisement consists of **Inactivity notification** and **Device paging** functionalities. Inactivity notification is based on the device sensor support (accelerometer). If the device doesn't have an accelerometer sensor, only the Device paging option is available.

To access Device Advertisement settings:

1. Go to **Settings**.
2. Touch **Device Advertisement**.

3. Select from the following options:
   - **Inactivity notification** - Enable to have the device notify the user with audible and/or LED notifications. The notification starts once the device battery level goes below the **Battery warning level** and the **Inactivity timeout** criteria is met (Default - disabled).
   - **Device paging** - The device must be connected to WLAN and be MDM managed. The MDM sends the device notification intent to the necessary device which has to be paged. This option is configurable through an MDM (StageNow, SOTI, or AirWatch) (Default - disabled).

   Configurations
   - **Battery warning level** - Enable **Inactivity notification** to activate this option. Set by the user. (Default - **20%**).
   - **Inactivity timeout** - Enable **Inactivity notification** to activate this option. Once the device is in an idle state (not in motion) and not charging or in a cradle, this is the time period after which the device will start sending notifications. Set between 1 - 60 minutes. (Default - **30**).
   - **LED notification** - Enable or disable this option to receive an LED notification.
   - **Audible notification** - Enable or disable this option to receive an audible notification.
   - **Audible timeout** - Enable this option to set the **Timeout of audible notification** option.
   - **Timeout of audible notification** - Enable **Audible timeout** to activate this option. This is the time period for which the notification is played continuously. If the **Audible timeout** is disabled and **Audible notification** is enabled, then the audio notification will keep playing without a timeout period. Set between 1-30 minutes (Default - **3**).
   - **Audible type** - valid options: **Ring**, **Notification**, and **Alarm**.
   - **Audible file** - The user can select from various pre-defined files, based on the audible type, or add a custom ringtone.
4. Touch ◯.

Wake-Up Sources

By default, the device wakes from suspend mode when the user presses the power button. The device can be configured to wake when the user presses the Trigger or the Scan button.

1. Go to **Settings**.
2. Touch **Wake-Up Sources**.
3. Touch a checkbox. A check appears in the checkbox.
4. Touch ◯.

Remapping a Button

Buttons on the device can be programmed to perform different functions or as shortcuts to installed apps.

NOTE: It is not recommended to remap the scan button.

1. Go to **Settings**.
2. Touch **Key Programmer**. A list of programmable buttons displays.
3. Select the button to remap.

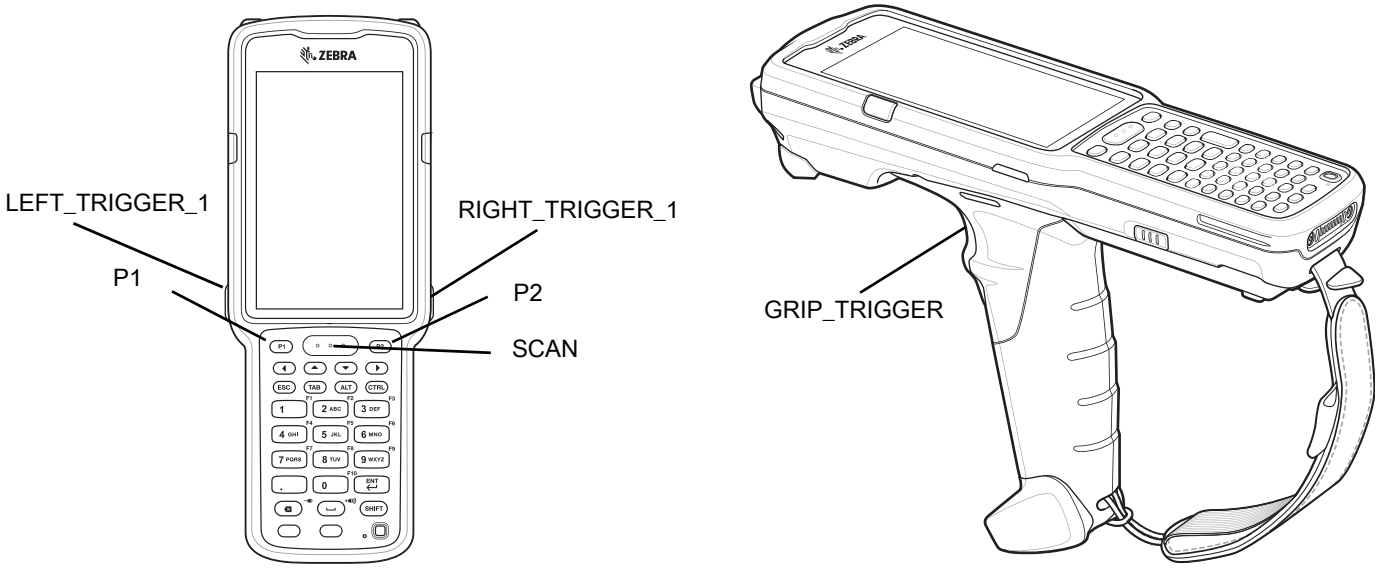
4. Touch the **BUTTON REMAPPING** tab or the **SHORTCUT** tab that lists the available functions and applications.
5. Touch a function or application shortcut to map to the button.

NOTE: If you select an application shortcut, the application icon appears next to the button on the Key Programmer screen.

6. Touch ◯.

Remappable Keys

Figure 30 Key Positions



UI Listed Keys

- GRIP_TRIGGER
- SCAN
- P1
- P2
- LEFT_TRIGGER_1
- RIGHT_TRIGGER_1

Other Remappable Keys

- 0-9
- A-Z
- F1-F10
- LEFT
- UP
- DOWN

- RIGHT
- ENTER
- SPACE
- ESC
- DOT (via XML only, not SN)
- TAB
- DELETE
- COMMA

Non-Remappable Keys

- POWER
- SHIFT
- CTRL
- ALT
- BLUE
- ORANGE
- BACK
- HOME
- RECENT

Keyboards

The device provides the following types of keyboards:

- Android Keyboard - Non-GMS devices only.
- Gboard - GMS devices only
- Enterprise Keyboard

NOTE: By default the Enterprise and Virtual Keyboards are disabled.

Keyboard Configuration

Enabling Keyboards

To enable keyboards:

1. Go to **Settings**.
2. Touch **System** > **Languages & input** > **Virtual keyboard** > **Manage keyboards**.
3. Touch a keyboard to enable.

Switching Between Keyboards

To switch between keyboards, touch in a text box to display the current keyboard.

- On the Android or Gboard keyboards, touch and hold .

- On the Enterprise keyboard, touch .

Using the Android and Gboard Keyboards

Use the Android or Gboard keyboards to enter text in a text field. To configure the keyboard settings, touch and hold **,** (comma) and then select **Android keyboard settings**.

Editing Text

Edit entered text and use menu commands to cut, copy, and paste text within or across apps. Some apps do not support editing some or all of the text they display; others may offer their own way to select text.

Entering Numbers, Symbols, and Special Characters

To enter numbers and symbols:

- Touch and hold one of the top-row keys until a menu appears then select a number or special character.
- Touch the Shift key once for a single capital letter. Touch the Shift key twice to lock in uppercase. Touch the Shift key a third time to unlock Capslock.
- Touch **?123** to switch to the numbers and symbols keyboard.
- Touch the **=\<** key on the numbers and symbols keyboard to view additional symbols.

To enter special characters, touch and hold a number or symbol key to open a menu of additional symbols. A larger version of the key displays briefly over the keyboard.

Using the Enterprise Keyboard

The Enterprise Keyboard contains the following keyboards:

- Numeric
- Alpha
- Special characters
- Data capture.

Numeric Tab

To access the numeric keyboard, touch the **123** tab. The keys displayed vary on the app being used. For example, an arrow displays in **Contacts**, however **Done** displays in **Email** account setup.

Figure 31 Numeric Keyboard