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ZEBRA EM45A2,EM45B2 Enterprise Mobile Computer



Specifications

- Model: EM45A2/EM45B2

- Power Supply: External power supply or Power over Ethernet (PoE) 802.3af or 802.3at
- Regulatory Certifications: NRTL, FCC, ISED
- Compliance: Directives 2014/53/EU, 2011/65/EU

Product Usage Instructions

Regulatory Information

Only use Zebra approved and NRTL-certified accessories, battery packs, and battery chargers. Do NOT attempt to charge damp/wet mobile computers, printers, or batteries. Ensure all components are dry before connecting to an external power source.

Health and Safety Recommendations

Vehicle Installation

Ensure the device is installed properly in vehicles to avoid interference with electronic systems. Position the device within easy reach to minimize driver distractions. Check national and local laws regarding distracted driving before installation or use.

Safety on the Road

Focus on driving and obey wireless device regulations while driving. Use the device safely to prevent distractions.

Restricted Use Locations

Observe restrictions and follow instructions in restricted use locations to ensure safe use of electronic devices.

Safety in Hospitals and Aircraft

Switch off wireless devices when requested in hospitals, clinics, or aircraft to prevent interference with medical equipment or aircraft operation.

Power Supply

Use only Zebra approved power supplies with appropriate electrical ratings. Follow the instructions for external power supply or Power over Ethernet sources.

Batteries and Power Packs

Dispose of batteries correctly and only use Zebra-approved batteries to avoid risks of

explosion or incorrect replacements.

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EM45 RFID Quick Start Guide

Model Numbers

This guide applies to the following model numbers: EM45A2 (EM45 RFID North America) and EM45B2 (EM45 RFID Rest of the World).

Unpacking the Device Unpack the device from the box.

1. Carefully remove all protective material from the device and save the container for later storage and shipping.
2. Verify the following are in the box:
 - EM45 RFID Enterprise Mobile
 - SuperSpeed (USB 3.0) USB-C type cable
 - Regulatory guide
3. Inspect the equipment for damage. If any equipment is missing or damaged, contact the Global Customer Support Center immediately.
4. Before using the device for the first time, remove the protective shipping film.

Charging the Device

Fully charge the device before turning it on.

1. Plug the Zebra 45W power adapter (sold separately) or compatible charger into a wall

outlet.

2. Connect the USB-C cable to your device.



Features

Main features of EM45.




Number	Item	Description
1	Front camera	8 megapixels (MP).
2	Back camera	50 MP with Optical image stabilization (OIS).
3	Integrated RFID	Ultra-high frequency (UHF) RFID.
4	Programmable button (right)	By default, opens Zebra's Workcloud Communication Push-to-Talk (PTT) (if installed), or can be used for other apps, such as Microsoft Teams PTT. NOTE: Both apps need to be installed separately.
5	Power button and biometric fingerprint sensor	Turns the display on/off. Also used as a fingerprint sensor for unlocking EM45. Go to Biometrics Security for more information.
6	Speaker	Audio output for video and music playback. Provides audio in speakerphone mode.

Number	Item	Description
7	USB-C port	Provides power and communications to the device.
8	Main microphone	Communications in handset/handsfree mode, audio recording, and noise cancellation.
9	Nano SIM/microSD slot	Holds a SIM and/or microSD card.
10	Microphone	Communications in handset/handsfree mode, audio recording, and noise cancellation.

11	Programmable button (top)	<p>Opens the Camera app in unlocked mode and wakes up the device (default).</p> <p>Or it can be used to open other apps, such as a digital voice assistant or duress (emergency) apps that are installed separately</p>
12	Volume buttons	Increase and decrease volume.
13	Programmable button (left)	Opens Camera barcode scanning for data capture (default).

Turning On/Off the Device

When turning on EM45 for the first time, it guides you to set up your Wi-Fi connection and device settings.

1. Press and hold the Power button (right side).
2. Follow the setup prompts (for example, language selection and network connection) displayed on the device.
3. Tap the Settings  app to customize your device.
4. To turn off the device, press and hold the Power button, and then tap Power off.

Protecting Your Device

- Securing your device enhances privacy and safeguards personal information from unauthorized access.

Setting a Screen Lock

Protect your device with a screen lock.

1. Go to Settings > Security > Screen lock. The Choose a screen lock screen displays.
2. Select the backup locking method you want to use for the lock screen.
 - Swipe

- Pattern
- PIN
- Password

3. Follow the screen prompt on how to set a lock.

Biometrics Security

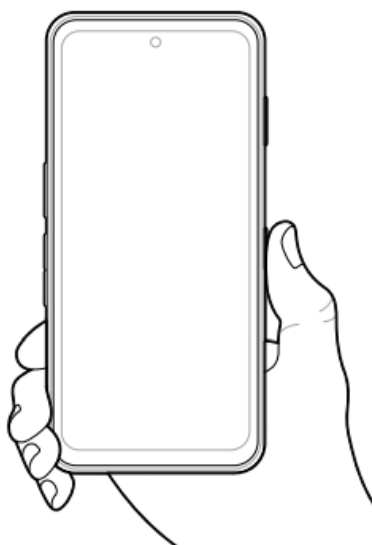
- Use biometrics to securely unlock your device and log into accounts.

Adding a Fingerprint Lock

Protect your device with your fingerprint.

1. Go to Settings > Security > Fingerprint. The Choose a screen lock screen displays.
2. Select the backup locking method you want to use for the lock screen.
 - Pattern
 - PIN
 - Password
3. Follow the screen prompts to register your finger and activate the fingerprint lock.

When unlocking your device with your finger, place the registered finger on the Power button.



Setting Up Face Authentication

Protect your device with facial authentication.

IMPORTANT: Do not wear a face covering (for example, a mask or sunglasses) when setting up face authentication.

1. Go to Settings > Security > Face Unlock. The Choose a screen lock screen displays.
2. Select the backup locking method you want to use for the lock screen.
 - Face Unlock + Pattern
 - Face Unlock + PIN
 - Face Unlock + Password
3. Follow the screen prompts to authenticate your face.

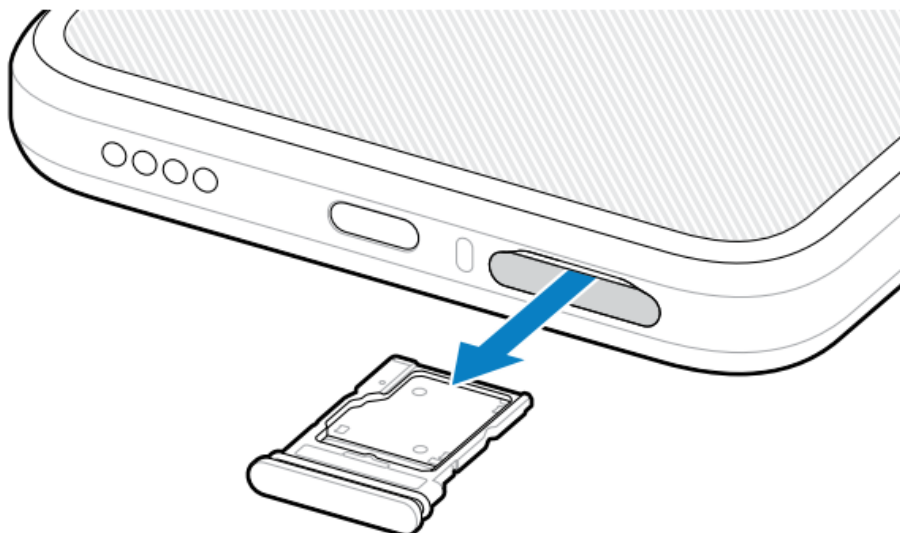
When unlocking your device with your face, turn on the display and look at the front camera.

Installing the SIM Card

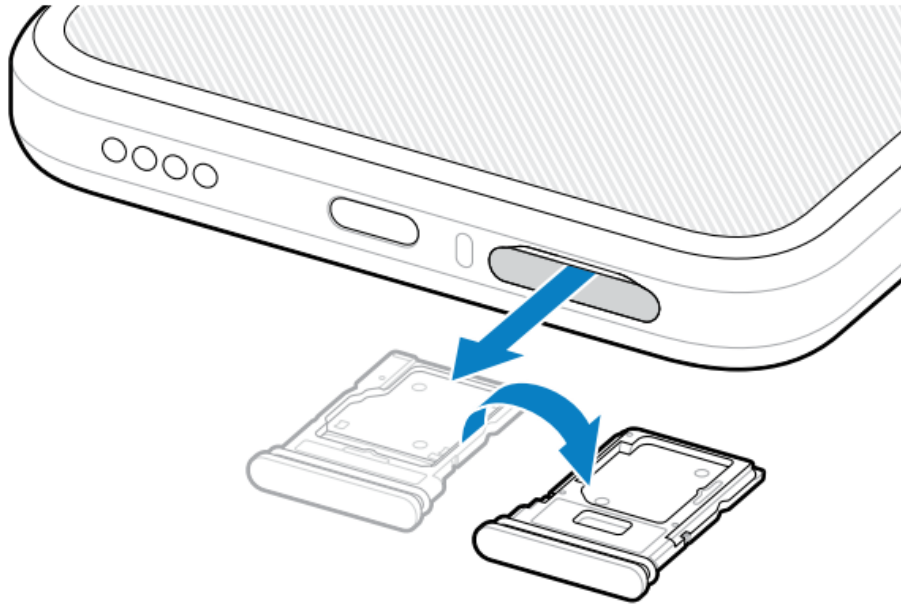
- A SIM card or eSIM is required to make calls and transfer data over a cellular network. The device also offers Dual SIM/Dual Standby (DSDS), which allows users to use an eSIM and SIM card and remain on standby at any time.

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

1. Pull the card holder out of the device.



2. Flip the card holder over.

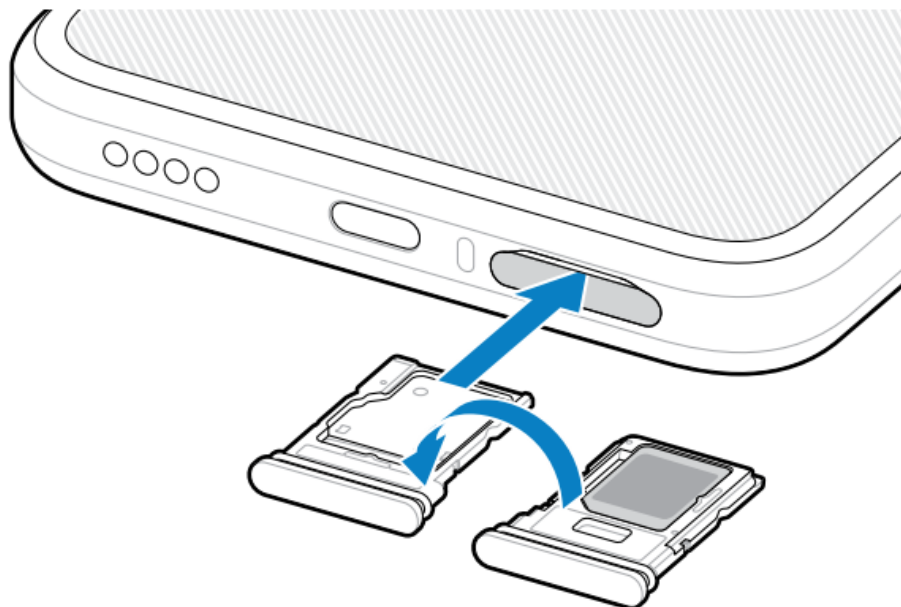


3. Place the SIM card end, with contacts facing up, into the card holder.



4. Press the SIM card down into the card holder and ensure that it seats properly.

5. Flip the cardholder over and re-install the card holder.



Activating an eSIM

- Use an eSIM on EM45. Before using it, activate the eSIM.

NOTE: Before adding an eSIM, contact your carrier to obtain the eSIM service and its activation or QR code.

1. On the device, establish an internet connection via Wi-Fi or cellular data with an installed SIM card.
2. Go to Settings > Network & internet.
3. Tap + next to SIMs if a SIM card is already installed, or tap SIMs if there is no SIM card installed. The Mobile network screen displays.
4. Select:
 - MANUAL CODE ENTRY to enter the activation code, or
 - SCAN to scan the QR code to download the eSIM profile.The Confirmation dialog box displays.
5. Tap OK.
6. Enter the activation code or scan the QR Code.
7. Tap NEXT.
The Confirmation dialog box displays.
8. Tap ACTIVATE, and then Done.
The eSIM is now activated.

Deactivating an eSIM Turn off an eSIM temporarily and re-activate it later.

1. On the device, establish an internet connection via Wi-Fi or cellular data with an installed SIM card.
2. Tap Settings > Network & internet > SIMs.
3. In the Downloaded SIM section, tap the name of the eSIM to deactivate.
4. Tap Use SIM switch to turn off the eSIM.
5. Tap Yes.
The eSIM is deactivated.

Erasing an eSIM Profile

Erasing an eSIM profile removes it completely from the device.

NOTE: After erasing an eSIM from the device, you cannot use it again.

1. On the device, establish an internet connection via Wi-Fi or cellular data with an installed SIM card.
2. Tap Settings > Network & internet > SIMs.

3. In the Downloaded SIM section, Tap the name of the eSIM.

4. **Tap Erase.**

The Erase this downloaded SIM? message displays.

5. **Tap Erase.**

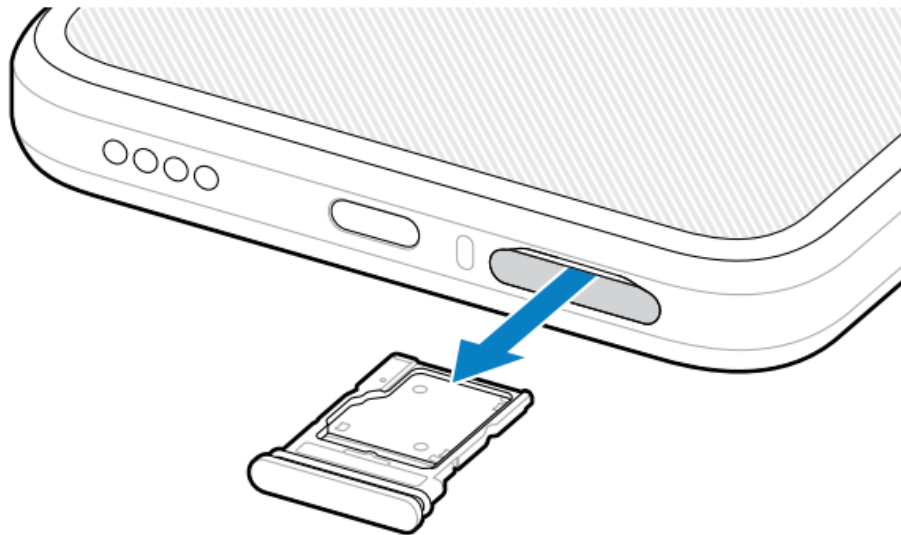
The eSIM profile is now erased from the device.

Installing the microSD Card

- The microSD card slot provides secondary, non-volatile storage. For more information, refer to the documentation provided with the microSD card and follow the manufacturer's recommendations for use. It is strongly recommended that you format the microSD card on the device before 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. Pull the card holder out of the device.

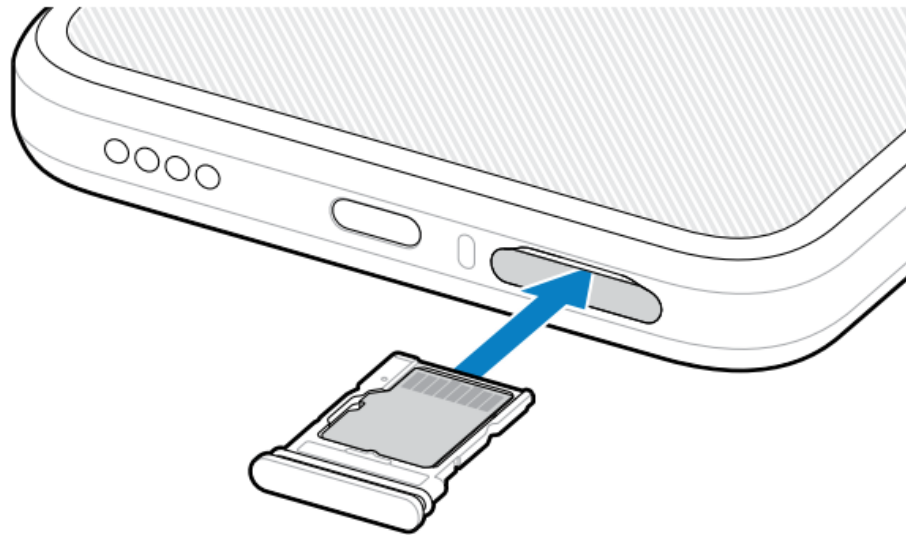


2. Place the microSD card, contact end first, with contacts facing up, into the card holder.



3. Press the card down into the card holder and ensure that it seats properly.

4. Re-install the card holder.

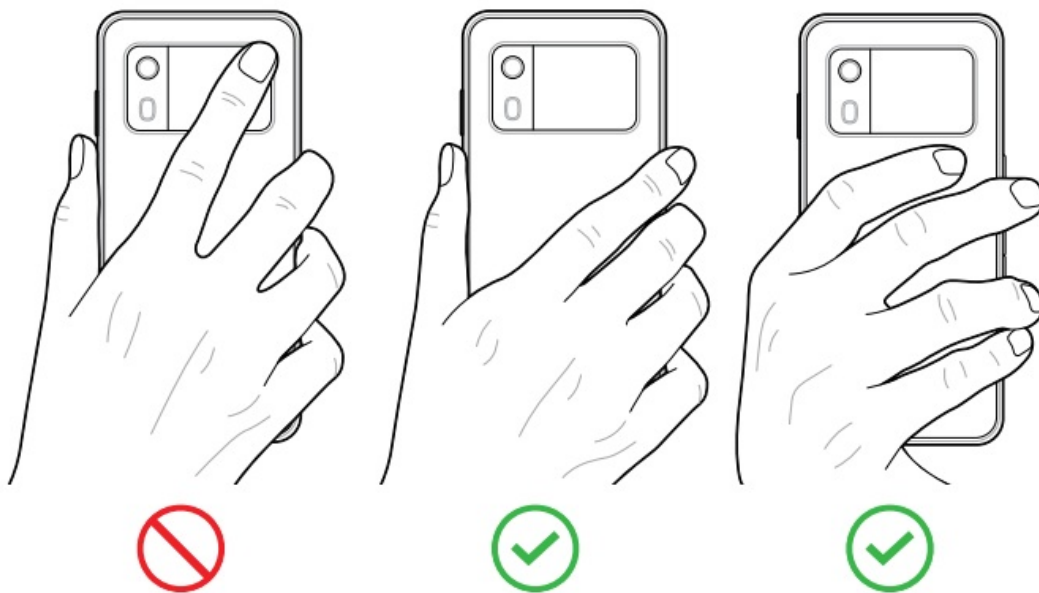


RFID Scanning Considerations

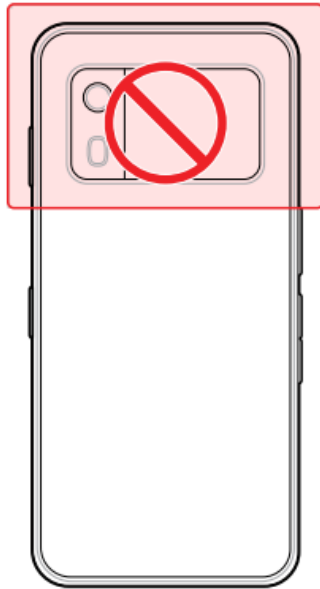
The following hand grips are recommended to ensure the RFID function works properly.

Optimal Hand Grips

NOTE: When holding the device, ensure your hand and fingers are below the RFID antenna.



IMPORTANT: For optimal RFID performance, avoid placing hands and fingers on the RFID antenna.



Scanning with Integrated RFID

- EM45's RFID reader uses the device's capabilities to communicate with RFID tags in an open environment. By emitting radio waves, the reader can detect, read, or write data to the tags within its range.

Using the 123RFID Mobile app

The 123RFID app demonstrates the device's functionality to read RFID tags.

- When opening the 123RFID Mobile app for the first time, it automatically connects to your device. Follow the prompts to complete regulatory requirements.
- From the RFID tab, start tag reading from the Rapid (Read) or Inventory screen.
- For more information on the 123RFID Mobile app, go to the Zebra 123RFID Mobile Support page or EM45 RFID User Guide.



Service Information

- Repair services using Zebra-qualified parts are available for three years after the end of production and can be requested at zebra.com/support.

www.zebra.com

FAQS

Q: Can I use third-party accessories with the device?

A: No, only use Zebra-approved accessories to ensure safety and compliance with regulatory standards.


Q: What should I do if the device gets wet?

A: Do not attempt to charge damp/wet devices. Ensure all components are dry before connecting to a power source.

Q: Can the device be used in hospitals?

A: Follow regulations and switch off wireless devices when requested in hospitals to prevent interference with medical equipment.

Documents / Resources

	ZEBRA EM45A2,EM45B2 Enterprise Mobile Computer [pdf] User Guide UZ7EM45B2, UZ7EM45B2, EM45B2, EM45A2 EM45B2 Enterprise Mobile Computer, EM45A2 EM45B2, Enterprise Mobile Computer, Mobile Computer
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References

-  [Zebra Support Community](#)
-  [Bluetooth® Technology Website](#)
-  [Patents](#)
-  [Battery Documentation | Zebra](#)
-  [Environmental Management | Zebra](#)
-  [Zebra Repairs | Zebra](#)
-  [RF Exposure and Assessment Standards | Zebra](#)
-  [Support and Downloads | Zebra](#)
-  [Product Warranty Information | Zebra](#)
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