



ZEBRA TC52AX WiFi 6 Mobile Computer Instruction Manual

[Home](#) » [ZEBRA](#) » ZEBRA TC52AX WiFi 6 Mobile Computer Instruction Manual 

Contents

- [1 ZEBRA TC52AX WiFi 6 Mobile Computer](#)
- [2 Highlights](#)
- [3 Software Packages](#)
- [4 Security Updates](#)
- [5 Device Compatibility](#)
- [6 Component Versions](#)
- [7 Documents / Resources](#)
 - [7.1 References](#)



ZEBRA TC52AX WiFi 6 Mobile Computer



Highlights

This Android 14 NGMS release covers TC52AX, TC52AX HC, EC30, EC50, EC55, ET51, ET56, L10A, MC2200, MC2700, MC93, TC21, TC21 HC, TC26, TC26 HC, TC52, TC52 HC, TC52x, TC52x HC, TC57, TC57x, TC72, TC77, TC8300, MC3300ax, MC3300x, MC3300xR, VC8300 & WT6300 family of products.

*Please find the special note for MC2200/MC2700 for A14 release support.

Hardware	2GB/16GB(BG)	3GB/32GB w/o Camera (MG)	3GB/32GB With Camera (PG)
MC2200	No support	Supported	Supported
MC2700	No support	SKU Unavailable	Supported

Starting at Android 11, Delta Updates must be installed in sequential order (ascending oldest to newest); Update Package List (UPL) is no longer a supported method. In place of installing multiple sequential Deltas, a Full Update can be used to jump to any available LifeGuard Update.

LifeGuard patches include all previous fixes that are part of earlier patch releases.

Please see, device compatibility under Addendum Section for more details.

Software Packages

Package Name	Description
HE_FULL_UPDATE_14-26-08.00-UN-U00-STD-HEL-04.zip	Full package update
HE_DELTA_UPDATE_14-23-05.00-UN-U00-STD_TO_14-26-08.00- UN-U00-STD.zip	Delta package from previous release 14-23-05.00-UN-U00- STD
Releasekey_A14_EnterpriseReset_V1.zip	Reset Package to Erase User Data Partition Only
Releasekey_A14_FactoryReset_V1.zip	Reset Package to Erase User Data and Enterprise Partitions

Zebra Conversion Package for migrating to Android 14 without data loss.

Current Source OS Versions present on device			Zebra Conversion Package to be used	Notes
OS Dessert	Release Date	Build Version		
Oreo	Any Oreo release	Any Oreo release	11-99-99.00-RN- U555-STD-HEL-04	Android Oreo – For devices with LG version earlier than 01-23-18.00-OG-U15-STD, the device must be upgraded to this version or newer prior to beginning the migration process.
Pie	Any Pie release	Any Pie release	11-99-99.00-RN- U555-STD-HEL-04	For Android Pie, the device must be upgraded to Android 10 or 11 to begin the migration process.
A10	Any A10 release	Any A10 release	11-99-99.00-RN- U555-STD-HEL-04	
A11	May 2023 To Jan 2025 release	From LIFEGUARD UPDATE 11-49-09.00- RN-U00	11-99-99.00-RN- U565-STD-HEL-04	<p>1. SD660 upgrades to A14 from lower OS dessert cause data reset due to encryption mismatch, hence ZCP is released to do selective data persistence in such OS upgrade cases, which is explained in the techdocs. https://techdocs.zebra.com/lifeguard/a14/ – SDM660 Upgrade Path.</p> <p>2. ssZCP will be released in cadence of A11 LG MR release to make sure it is based upon the latest Security patches as per security team guidelines.</p> <p>3. Customers need to choose the right ZCP based on their source and target OS as mentioned in the tabular section of ZCP release notes.</p>

Security Updates

This build is Compliant up to Android Security Bulletin of February 01, 2025.
LifeGuard Update 14-26-08.00-UN-U00 contains security updates, bug fixes and SPRs.

New Features

Restriction for skip setup wizard

- Due to new mandatory privacy requirements from Google, the Setup Wizard Bypass feature has been discontinued on devices running Android 13 and later. Consequently, it is now restricted to skip the Setup Wizard screen, and the StageNow barcode will not function during the Setup Wizard, displaying a toast message stating “Not supported.”
- If the Setup Wizard has already been completed and its data was configured to persist on the device in the past, there is no need to repeat this process following an Enterprise Reset.
- For more details, please refer to the Zebra FAQ documentation:
<https://techdocs.zebra.com/zebradna/latest/faq/#setupwizardsuw>
- Bluetooth:
 - Admin configuration support to disable Bluetooth Profiles.
- MX 14.0:
 - App Manager adds the ability to
- Use the App Feature parameter to automatically launch an app or reboot the device after installation.
 - Bluetooth Manager adds the ability to:
- Set individual Bluetooth Profiles as active or inactive.
 - Display Manager adds the ability to
- Control the Secondary Monitor Auto-rotation when a device is placed in a cradle connected to a monitor.
- Specify a video file in the Screen Saver Path for display on the device.
 - License Manager adds the ability to:
- Perform licensing actions on non-legacy Zebra licenses.
- Perform device licensing actions based on License Action type.
- Perform BadgeID licensing based on Server Type.
 - UI Manager adds the ability to:
- Select a Navigation Method for switching between screens on a device.
- Control Color Inversion on the device.
- Control TalkBack feature, which speaks words displayed on the device screen.
 - KeyMapping Manager adds the ability to
- Configure Double-trigger Mode to launch an app or activity.
- **MX 14.1:**
 - Display Manager adds the ability to
 - Control display of the two-line clock on the Android lock-screen clock.

Resolved Issues

- SPR55016 – Resolved an issue to remap a key with flashlight application
- SPR54952 – Resolved an issue where, ZAMS and FFD, when enabled /used simultaneously, one/both become non-functional.
- SPR54744 – Resolved an issue where in the free fall detection (FFD) feature is not functional.
- SPR54688 – Resolved an issue to support for device locked orientation persistence during device lock/unlock scenario.
- SPR55563 – Resolved an issue wherein Fix has been implemented to address the crash by programmatically correcting the database schema in Quickstep app on A11 to A14 OTA scenario.

Usage Notes

None

LifeGuard Update 14-23-05.00-UN-U00 contains security updates, bug fixes and SPRs.

New Features

- The Hotseat home screen “Phone” icon has been replaced by the “Files” icon (for Wi-Fi-only devices).
- The split-screen feature on Tablet devices allows you to view two apps simultaneously.
- Users can select a portion of available device storage to be used as system RAM. This feature can be turned ON/OFF by the device admin only. Please refer to <https://techdocs.zebra.com/mx/powermgr/> for more details.
- Added support for DHCP Option 119, which will work only on managed devices over WLAN, and the WLAN profile should be created by the device owner.
- Added support to control BLE scan based on the application package.
- Added support for an RSSI filter for BLE scan based on the application package.
- Added support for 1x authentication in ethernet.
- Support for Cross AKM Roam and EAP TLS 1.3
- Wi-Fi Direct enhancements
- MC9300- Added support to improve battery life cycle for new battery (BT-000371-A0).

Scanning Features

- FS40 (SSI Mode) Scanner Support with DataWedge.
- Expose the GS1 DataBar Security Level settings.
- New Configurable Focus Parameters offered for devices with SE55 Scan Engines.
- SPR 53388: Firmware Update for SE55(PAAFNS00-001-R09) Scan Engine with Critical bug fixes, and performance enhancements.
- Added support for Regular Expression checking in Free-Form OCR and Picklist + OCR workflows.

Usage Notes

- Compatible with new Power Amplifier (PA) hardware (SKY77652). WWAN SKUs manufactured after November 25, 2024, will have this new PA component and will not be allowed to downgrade below the following Android images: A13 image 13-34-31.00-TN-U00-STD, A11 image 11-51-18.00-RN-U00-STD, A10 image 10-63-18.00-QN-U00-STD and A8 image 01-83-27.00-ON-U00-STD.
- Existing customers can upgrade to A14 with data persistence using one of the following methods.
 - a) Using FDE-FBE conversion package (FDE-FBE conversion package – SDM660 Upgrade Path)
 - b) Using EMM enterprise persistence (AirWatch, SOTI)

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	14-26-08.00-UN-U00-STD-HEL-04
Android Version	14
Security Patch level	February 01, 2025
Component Versions	Please see Component Versions under Addendum section

Device Support

Please see device compatibility details under Addendum Section.

Known Constraints

- Dessert Upgrade to A14ss will have Enterprise reset because of Encryption change from FDE to FBE.
- Customers who upgrade from A10/A11 to A13 without FDE-FBE conversion package or EMM persistence will result in data wipe.
- Dessert upgrade from A10, A11 to A13 can be done with UPL with reset command. Oreo reset command is not supported.
- EMM supporting persistence feature (primarily Airwatch/SOTI) will only work while migrating from A11 to A13.

Important Links

- SDM660 A14 OS Update instructions
- FDE-FBE conversion package – SDM660 Upgrade Path
- Zebra Techdocs
- Developer Portal

Device Compatibility

This software release has been approved for use on the following devices.

Device Family	Part Number		Device Specific Manuals and Guides
MC3300ax	MC330X-GE3EA4CN MC330X-GJ3EA4CN	MC330X-GJ4EA4CN MC330X-SJ2EA4CN	MC3300ax Home Page
EC30	EC300K-2SA2ACN		EC30 Home Page
EC50	EC500K-02B112-CN EC500K-02B132-CN	EC500K-02B223-CN EC500K-02B243-CN	EC50 Home Page
EC55	EC55CK-12B112-CN EC55CK-12B132-CN	EC55CK-12B223-CN EC55CK-12B243-CN	EC55 Home Page
ET51	ET51CE-L21E-00CN ET51CE-L21E-SFCN	ET51CT-L21E-00CN	ET51 Home Page
ET56	ET56DE-L21E-00CN ET56ET-L21E-00CN		ET56 Home Page

L10A	RTL10B1-B1AE0X0000CN RT L10B1-B1AS0P0000CN RTL1 0B1-B1AS0X0000CN RTL10B 1-B2AE0X0000CN RTL10B1- B2AS0P0000CN RTL10B1-B2 AS0X0000CN RTL10B1-B4AE 0X0000CN RTL10B1-B4AS0P 0000CN RTL10B1-B4AS0X00 00CN RTL10B1-C1AE0X0000 CN RTL10B1- C1AS0X0000CN RTL10B1-H1 AS0X0000CN RTL10B1-H2AS 0P0000CN RTL10B1-H4AS0X 0000CN RTL10B1-I4AS0X000 0CN	RTL10B1-C2AE0X0000CN RT L10B1-C2AS0X0000CN RTL1 0B1-C4AE0X0000CN RTL10B 1-C4AS0X0000CN RTL10B1- E1AE0X0000CN RTL10B1-E1 AS0X0000CN RTL10B1-E2AS 0P0000CN RTL10B1-E2AS0X 0000CN RTL10B1- E4AS0X0000CN RTL10B1-F1 AE0X0000CN RTL10B1-F1AS 0X0000CN RTL10B1-F2AE0X 0000CN RTL10B1- F2AS0X0000CN RTL10B1-F4 AS0X0000CN	L10A Home Page
MC2200	MC220K-3B3S4CN		MC2200 Home Page
MC2700	MC27CK-3B3S4CN		MC2700 Home Page
MC3300x	MC330L-GE3EA4CN MC330L- GE4EA4CN MC330L-GH3EA3 CN MC330L-GJ2EA4CN MC3 30L-GJ3EA4CN MC330L-GJ4 EA4CN MC330L-GL3EA3CN MC330L-GL3EA4CN MC330L- RL2EA4CN MC330L- SL3EA3CN	MC330L-RL3EA4CN MC330L- SA3EA4CN MC330L-SE3EA4 CN MC330L-SE4EA4CN MC3 30L-SG3EA4CN MC330L-SH3 EA3CN MC330L-SJ2EA4CN MC330L-SJ3EA4CN MC330L- SJ4EA4CN MC330L- SK3EA4CN	MC3300x Home Page
MC3300xR	MC339R-GE4HA4CN MC339 R-GF4HA4CN	MC333R-GI3HA4CN MC333R -GI4HA4CN	MC3300xR Home Page
MC93	MC930B-GSEDG4CN MC930 B-GSEEG4CN MC930B-GSC DG4CN MC930B-GSADG4CN MC930B-GSACG4CN MC930 P-GFADG4CN MC930P-GFCD G4CN MC930P-GFEDG4CN MC930P-GFABG4CN MC930P-GFCBG4CN MC930 P-GFEBG4CN	MC930P-GFHBG4CN MC930 B-GSHDG4CN MC930P-GFH DG4CN MC930P-GSGDA4CN MC930P-GSWBA4CN MC930 P-GSWDA4CN MC930P-GSG BA4CN MC930B-GSECG4CN MC930P-GSFDA4CN MC930B -GSHCA4CN	MC9300 Home Page
TC21	TC210K-02A222-CN TC210K- 02A222-CNP TC210K-02A423 -CN TC210K-02B212-CN	TC210K-02B232-CN TC210K- 02B412-CN TC210K-06B224- CN	TC21 Home Page
TC26	TC26CK-12A222-CN		TC26 Home Page

	TC26CK-12A222-CNP TC26CK-12A423-CN TC26CK-12B212-CN TC26CK-16B224-CN		
TC52	TC520K-2HEZU4P-CN TC520K-2PEZU4P-CN		TC52 Home Page
TC52x	TC520K-2XFMU6P-CN		TC52x Home Page
TC52AX	TC520L-2YFMU7P-CN TC520L-2YFMU7T-CN	TC520L-2YLMU7P-CN TC520L-2YLMU7T-CN	TC52ax Home Page
TC57	TC57HO-2PEZU4P-13 TC57HO-2PEZU4P-CN		TC57 Home Page
TC57x	TC57HO-3XFMU6P-CN		TC57X Home Page
TC72	TC720L-02E24B0-CN		TC72 Home Page
TC77	TC77HL-52E24BD-CN		TC77 Home Page
TC8300	TC83B0-5005A610CN TC83B0-2005A61CCN TC83B0-2005A510CN TC83B0-3005A510CN TC83BH-2205A710CN	TC83B0-4005A610CN TC83B0-3005A61CCN TC83BH-3205A710CN TC83B0-6005A510CN	TC8300 Home Page
VC8300 8"	VC83-08FOCQBABBACN VC83-08SOCQBABBACN		VC8300 Home Page
VC8300 10"	VC83-10FSRNBABBACN VC83-10SSCNBABBACN		
WT6300	WT63B0-KS0ANECON WT63B0-TS0ANECON		WT6300 Home Page

Component Versions

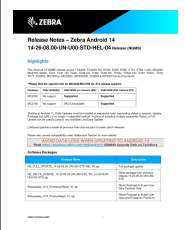
Component / Description	Version
Linux Kernel	4.19.157-perf
AnalyticsMgr	10.0.0.1008
Android SDK Level	34

Audio (Microphone and Speaker)	0.1.0.0
Battery Manager	1.4.6
Bluetooth Pairing Utility	6.2
Camera	2.0.002(16-00)
DataWedge	15.0.16
ZSL	6.1.4
Files	14-11531109
MXMF	14.1.0.7
NFC	NFC_NCIHALx_AR18C0.d.2.0
OEM info	9.0.1.257
OSX	SDM660.140. 14.3.2
RXlogger	14.0.12.21
Scanning Framework	43.13.1.7
StageNow	13.4.0.0
Zebra device manager	14.1.0.7
Zebra Bluetooth	13.8.1
Zebra Volume Control	3.0.0.106
Zebra Data Service	14.0.0.1032
WLAN	FUSION_QA_2_1.0.0.034_U
Showcase App	1.0.55



















Revision History

Rev	Description	Date
1.0	Initial release	February 25, 2025

Documents / Resources

	<p>ZEBRA TC52AX WiFi 6 Mobile Computer [pdf] Instruction Manual</p> <p>TC52AX, TC52AX HC, EC30, EC50, EC55, ET51, ET56, L10A, MC2200, MC2700, MC93, TC21 , TC21 HC, TC26, TC26 HC, TC52, TC52 HC, TC52x, TC52x HC, TC57, TC57x, TC72, TC77, T C8300, MC3300ax, MC3300x, MC3300xR, VC8300 WT6300, TC52AX WiFi 6 Mobile Computer, TC52AX, WiFi 6 Mobile Computer, 6 Mobile Computer, Mobile Computer</p>
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References

-  [Welcome | Zebra Developer Portal](#)
-  [Android Security and Update Bulletins | Android Open Source Project](#)
-  [App Manager - TechDocs](#)
-  [App Manager - TechDocs](#)
-  [Bluetooth Manager - TechDocs](#)
-  [Bluetooth Manager - TechDocs](#)
-  [Display Manager - TechDocs](#)
-  [Display Manager - TechDocs](#)
-  [Display Manager - TechDocs](#)
-  [Display Manager - TechDocs](#)
-  [KeyMapping Manager - TechDocs](#)
-  [KeyMapping Manager - TechDocs](#)
-  [Power Manager - TechDocs](#)
-  [UI Manager - TechDocs](#)
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- [User Manual](#)

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