

RN00201

Android Release Notes

Rev. android-16.0.0_2.0.0 — 24 July 2026

Release notes

Document information

Information	Content
Keywords	Android, i.MX, android-16.0.0_2.0.0
Abstract	i.MX android-16.0.0_2.0.0 is a release for Android 16 on the i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus, and i.MX 95 applications processors of NXP.



1 Release Description

i.MX android-16.0.0_2.0.0 is a release for Android 16 on the i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus, i.MX 95, and i.MX 952 applications processors of NXP.

i.MX android-16.0.0_2.0.0 release includes all necessary code, documents, and tools to assist users in building and running Android 15 on the i.MX 8M Mini EVK, i.MX 8M Nano EVK, i.MX 8M Plus EVK, i.MX 8M Quad WEVK/EVK, i.MX 8ULP EVK i.MX 8QuadMax MEK, i.MX 8QuadXPlus MEK, i.MX 95 19x19 EVK, FRDM i.MX 95, i.MX 952 EVK, and i.MX 952 15x15 EVK. The corresponding release quality for each board is listed in the following table.

Table 1. Release description

Platform name	Release quality
i.MX 8M Mini EVK	GA
i.MX 8M Nano EVK	GA
i.MX 8M Plus EVK	GA
i.MX 8M Quad WEVK/EVK	GA
i.MX 8ULP (A2 9x9) EVK	GA
i.MX 8ULP (A2) EVK	GA
i.MX 8QuadMax	GA
i.MX 8QuadXPlus	GA
i.MX 95 (B0 19x19) EVK	GA
FRDM i.MX 95 (B0 15x15)	GA
i.MX 952 (A0 19x19) EVK	Beta
i.MX 952 (A0 15x15) EVK	Beta

The prebuilt images are also included for a quick trial on NXP i.MX 8M Mini EVK, i.MX 8M Nano EVK, i.MX 8M Plus EVK, i.MX 8M Quad WEVK/EVK, i.MX 8ULP EVK, i.MX 8QuadMax MEK, i.MX 8QuadXPlus MEK, i.MX 95 19x19 EVK, FRDM i.MX 95, i.MX 952 19x19 EVK, and i.MX 952 15x15 EVK Boards and Platforms.

This release includes all porting and enhancements based on the Android open source code.

Most of the deliveries in this release are provided in the source code with the exception for some proprietary modules/libraries from third parties.

2 Supported Hardware SoC/Boards

The supported hardware system-on-chip (SoCs)/boards are listed as follows:

- i.MX 8M Mini EVK
Supported daughter boards:
 - With DDR4 RAM, ROHM BD71847 PMIC chip
 - With LPDDR4 RAM, NXP PCA9450 PMIC chip, and NXP 88W8987 Wi-Fi/Bluetooth module.Supported mother board:
 - Rev. C mother board
- i.MX 8M Nano EVK
Supported daughter boards:
 - With DDR4 RAM, ROHM BD71847 PMIC chip

- With LPDDR4 RAM, NXP PCA9450 PMIC chip, and NXP 88W8987 Wi-Fi/Bluetooth module

Supported mother board:

- Rev. C mother board
- i.MX 8M Plus (Silicon Revision A1) Rev. A EVK Board and Platform
- i.MX 8M Quad WEVK Rev. B and EVK Rev. A Board and Platform
- i.MX 8ULP (A2) EVK Board and Platform, i.MX 8ULP (A2) EVK 9x9 Board and Platform.
- i.MX 8QuadMax (Silicon Revision B0) MEK Board (Board Rev. B5, Rev. C2, and Rev. E) and Platform
- i.MX 8QuadXPlus (Silicon Revision B0 and C0) MEK Board and Platform
- i.MX 95 Boards and Platforms.
 - i.MX 95 (Silicon Revision B0 19x19) EVK Board (Rev. A) and Platform.
 - FRDM i.MX 95 (Silicon Revision B0 15x15) Board and Platform.
- i.MX 952 EVK Boards and Platforms.
 - i.MX 952 (Silicon Revision A0 19x19) EVK Board (REV A) and Platform.
 - i.MX 952 (Silicon Revision A0 15x15) EVK Board (REV A) and Platform.

3 Release Package Contents

The android-16.0.0_2.0.0 release package includes the following software and documents.

Table 2. Release package contents

i.MX Android proprietary source code package	• <code>imx-android-16.0.0_2.0.0.tar.gz</code>: i.MX Android proprietary source code package to enable Android on i.MX boards. For example, Hardware Abstraction Layer implementation, hardware codec acceleration.
Documents	The following documents are included in <code>android-16.0.0_2.0.0_docs.zip</code>: • <i>Android Quick Start Guide</i> (UG10157): A document that explains how to run the Android platform on an i.MX board using prebuilt images. • <i>Android User's Guide</i> (UG10156): A document describing procedures for configuring and building this release package. • <i>Android Release Notes</i> (RN00201): A document that introduces key updates and known issues in this release. • <i>i.MX Android Extended Codec Release Notes</i> (RN00202): A document that provides the extended codec information. • <i>i.MX Android Security User's Guide</i> (UG10158): A document that describes how to do customization work on security features supported by i.MX Android software. • <i>i.MX Graphics User's Guide</i> (UG10159): A document that describes GPU 2D API, Tools, Memory, and Application programming guidelines.
Prebuilt images	You can test the Android platform with a prebuilt image on the i.MX reference board before building any code: • <code>android-16.0.0_2.0.0_image_8mmevk.tar.gz</code>: Prebuilt images with NXP extended features for the i.MX 8M Mini EVK board. • <code>android-16.0.0_2.0.0_image_8mnevk.tar.gz</code>: Prebuilt images with NXP extended features for the i.MX 8M Nano EVK board. • <code>android-16.0.0_2.0.0_image_8mpevk.tar.gz</code>: Prebuilt images with NXP extended features for the i.MX 8M Plus EVK board. • <code>android-16.0.0_2.0.0_image_8mqevk.tar.gz</code>: Prebuilt images with NXP extended features for the i.MX 8M Quad WEVK/EVK board. • <code>android-16.0.0_2.0.0_image_8ulpevk.tar.gz</code>: Prebuilt images with NXP extended features for the i.MX 8ULP EVK board and i.MX 8ULP EVK 9x9 board. • <code>android-16.0.0_2.0.0_image_8qmek.tar.gz</code>: Prebuilt images with NXP extended features for the i.MX 8QuadMax MEK board and i.MX 8QuadXPlus MEK board.

Table 2. Release package contents...continued

	- android-16.0.0_2.0.0_image_95evk.tar.gz: Prebuilt images with NXP extended features for the i.MX 95 EVK, and FRDM i.MX 95 board. - android-16.0.0_2.0.0_image_952evk.tar.gz: Prebuilt images with NXP extended features for the i.MX 952 19x19 EVK, i.MX 952 15x15 EVK board. All prebuilt images are in a separate package. See the <i>Android Quick Start Guide</i> (UG10157) and <i>Android User's Guide</i> (UG10156) to choose the appropriate image.
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4 Features

This section contains features in this package.

Table 3. Features

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8 Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
Google Android 16 release	Y	Y	Y	Y	Y	Y	Y	Y	Y	Based on the BP4A android-16.0.0_r4 release.
Linux 6.18.21 kernel (merge with AOSP kernel)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Based on the Linux OS BSP LF6.18.20_2.0.0 release.
Generic Kernel Image (6.18.21)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Based on AOSP android17-6.18.
U-Boot	Y	Y	Y	Y	Y	Y	Y	Y	Y	v2026.04.
Trusty OS	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Graphic-HW	Y	Y	Y	Y	Y	Y	Y	Y	Y	VeriSilicon GC7000Nano Ultra GPU with the 6.4.11.p4 driver for i.MX 8M Mini EVK. VeriSilicon GC7000UL GPU with 6.4.11.p4 driver for i.MX 8M Nano EVK and i.MX 8M Plus EVK. VeriSilicon GC7000L GPU with 6.4.11.p4 driver for i.MX 8M Quad EVK. VeriSilicon GCNANOULTRA31 GPU with 6.4.11.p4 driver for i.MX 8ULP EVK. VeriSilicon GC7000XSVX GPU with 6.4.11.p4 driver FOR i.MX 8Quad Max. VeriSilicon GC7000L GPU with 6.4.11.p4 driver for i.MX 8QuadXPlus. Mali-G310 GPU with the r54p1-11eac0 driver for i.MX 95 EVK and i.MX 952 EVK.
Graphic-HW 3D acceleration	Y	Y	Y	Y	Y	Y	Y	Y	Y	OpenGL ES1.1/2.0 through GC7000NanoUltra for i.MX 8M Mini EVK. OpenGL ES1.1/2.0/3.1 through GC7000UL for i.MX

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8 Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
										8M Nano EVK and i.MX 8M Plus EVK. OpenGL ES1.1/2.0/3.1 through GC7000L for i.MX 8M Quad EVK. OpenGL ES1.1/2.0/3.1 through GCNANOULTRA31 for i.MX 8ULP EVK. OpenGL ES 1.1/2.0/3.1/3.2 through GC7000XSVX for i.MX 8Quad Max MEK. OpenGL ES 1.1/2.0/3.1 through GC7000L. Vulkan 1.4 through Mali-G310 for i.MX 95 EVK and i.MX 952 EVK.
Graphic-HW accelerated UI surface composition	Y	Y	Y	Y	Y	Y	Y	Y	Y	OpenGL ES2.0 through GC7000NanoUltra for i.MX 8M Mini EVK. OpenGL ES3.1 through GC7000UL for i.MX 8M Nano EVK and i.MX 8M Plus EVK. OpenGL ES3.1 through GC7000L for i.MX 8M Quad EVK. OpenGL ES3.1 through GCNANOULTRA31 for i.MX 8ULP EVK. OpenGL ES 3.2 through GC7000XSVX for i.MX 8Quad Max MEK. OpenGL ES 3.1 through GC7000L for i.MX 8Quad XPlus MEK. Vulkan 1.4 through Mali-G310 for i.MX 95 EVK and i.MX 952 EVK.
SCFW	N	N	N	N	N	Y	Y	N	N	Version 1.18.0
SECO firmware	N	N	N	N	N	Y	Y	N	N	Version 3.8.5 for i.MX 8 QuadXPlus. Version 3.8.5-7d5462e6 for i.MX 8Quad Max
Boot source	SD/ eMMC	SD/ eMMC	SD/ eMMC	SD/ eMMC	eMMC	SD/ eMMC	SD/ eMMC	SD/ eMMC	SD/ eMMC	-
Splash Screen	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
UI (input)	Y	Y	Y	Y	Y	Y	Y	Y	Y	USB Mouse and Multi-touch on the MIPI panel display.
UI (display)	MIPI-DSI-to-HDMI/ MIPI panel	MIPI-DSI-to-HDMI/ MIPI panel	HDMI/ MIPI-to-HDMI/ MIPI panel/ LVDS-	HDMI/ MIPI-DSI-to-HDMI/ MIPI panel	HDMI/ MIPI/ EPDC	HDMI/ MIPI-to-HDMI/ MIPI-panel/ LVDS-	LVDS-to-HDMI/ MIPI-to-HDMI Display	MIPI-to-HDMI4 K/MIPI-to-HDMI/ LVDS-	MIPI-to-HDMI4 K/MIPI-to-HDMI/ LVDS-	i.MX 8M Mini EVK maximum resolution: • MIPI-to-HDMI: 1920 x 1080 • MIPI Panel: 1080 x 1920

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8 Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
			to-HDMI/ LVDS panel/ dual channel LVDS to HDMI The physical HDMI supports HDMI-CEC	The physical HDMI supports HDMI-CEC		to-HDMI Display The physical HDMI supports HDMI-CEC		to-HDMI/MIPI Panel/ LVDS Panel/ BOE panel/ Waveshare panel	to-HDMI/MIPI Panel/ LVDS Panel Display/ LVDS Panel with local dimming	i.MX 8M Nano EVK maximum resolution: • MIPI-to-HDMI: 1920 x 1080 • MIPI Panel: 1080 x 1920 i.MX 8M Plus EVK maximum resolution: • Physical HDMI: 3840 x 2160 • MIPI-to-HDMI: 1920 x 1080 • LVDS-to-HDMI: 1280 x 720 • LVDS panel: 1920 x 1200 • MIPI panel: 1080 x 1920 • Dual-channel LVDS to HDMI: 1920 x 1080 i.MX 8M Quad EVK maximum resolution: • Physical HDMI: 3840 x 2160 • MIPI-to-HDMI: 1280 x 720 • MIPI panel: 1080 x 1920 i.MX 8ULP EVK maximum resolution: • HDMI: 720 x 480 • MIPI: 720 x 1280 • EPDC: 1024 x 758 i.MX 8Quad Max MEK maximum resolution: • physical HDMI: 3840 x 2160 • LVDS-to-HDMI/MIPI-to-HDMI: 1920 x 1080 • MIPI panel: 1080 x 1920 i.MX 8QuadXPlus MEK maximum resolution: • LVDS-to-HDMI/MIPI-to-HDMI: 1920 x 1080 i.MX 95 EVK and FRDM i.MX 95 maximum resolution: • MIPI-to-HDMI4K: 3840 x 2160 • MIPI-to-HDMI: 1920 x 1080 • LVDS-to-HDMI: 1920 x 1080 • MIPI Panel: 1080 x 2340 • LVDS Panel: 1920 x 1200 • BOE panel: 1280 x 800 • Waveshare panel: 1024 x 600 i.MX 952 EVK maximum resolution:

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8 Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
										• MIPI-to-HDMI4K: 3840 x 2160 • MIPI-to-HDMI: 1920 x 1080 • LVDS-to-HDMI: 1920 x 1080 • MIPI Panel: 1080 x 2340 • LVDS Panel: 1920 x 1200 • LVDS Panel with local dimming: 1920 x 720
UI (multiple displays)	N	N	Y	Y	N	Y	Y	Y/N	Y	i.MX 8M Plus EVK supports the combination of 2 to 3 of the following displays: • MIPI-to-HDMI • HDMI • LVDS-to-HDMI i.MX 8M Quad EVK supports MIPI-to-HDMI and HDMI displays. i.MX 8Quad Max MEK supports the combination of 2 to 4 of the following 4 displays: • HDMI_TX • LVDS0_CH0 • LVDS1_CH0 • MIPI_DSI1 and the combination of 2 to 4 of the following 4 displays: • LVDS0_CH0 • LVDS1_CH0 • MIPI_DSI0 • MIPI_DSI1 i.MX 8QuadXPlus MEK supports dual LVDS-to-HDMI displays. i.MX 95 EVK supports dual LVDS-to-HDMI displays, MIPI-to-HDMI, and LVDS-to-HDMI multiple displays. i.MX 952 EVK supports dual LVDS-to-HDMI displays and LVDS-to-HDMI multiple displays.
UI (brightness control)	Y	Y	Y	Y	Y	Y	N	Y	Y	With MIPI panel display for all boards. With LVDS panel display for i.MX 8M Plus EVK and i.MX 95 EVK.
UI-Low Power Display (LPD)	N	N	N		Y	N	N	N	N	Shares display with the RTD core.

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
Storage - External Media	Y	Y	Y	Y	Y	Y	Y	Y	Y	i.MX 8M Mini EVK and i.MX 8M Nano EVK support U-disk on the USB 2.0 port. i.MX 8M Plus EVK, i.MX 8M Quad EVK, i.MX 95 EVK, FRDM i.MX 95, and i.MX 952 EVK support U-disk on the USB Type-A host port. i.MX 8ULP EVK supports U-disk on the USB 0 port and USB 1 port. i.MX 8Quad Max MEK and i.MX 8QuadXPlus MEK support U-disk on the USB 2.0 port.
Connectivity - Ethernet	Y	Y	Y	Y	Y	Y	Y	Y	Y	For i.MX 8M Plus EVK, i.MX 95 EVK, and FRDM i.MX 95, the ENET1 port is the default Ethernet port. For i.MX 952 EVK, the ENET0 port is the default Ethernet port.
Connectivity - Bluetooth wireless technology	Y	Y	Y	Y	Y	Y	Y	Y	Y	Hardware: - NXP 88W8987 for the i.MX 8M Mini EVK LPDDR4 board and i.MX 8M Nano EVK LPDDR4 board. - SDIW612 for i.MX 8M Plus EVK and i.MX 8ULP EVK. - PCIE9098 (Murata LBEE5 ZZ1XL) for i.MX 8M Quad EVK Rev. A board, i.MX 8Quad Max MEK, and i.MX 8QuadXPlus MEK. - PCIE9098/SDIW612 for i.MX 95 EVK. - AW693 for i.MX 952 EVK. Profiles: - A2DP Source - AVRCP - BLE Host - HSP - HID Host - HID Device - PAN - OPP
Connectivity - Wi-Fi	Y	Y	Y	Y	Y	Y	Y	Y	Y	Hardware: - NXP 88W8987 for the i.MX 8M Mini EVK LPDDR4 board and i.MX 8M Nano EVK LPDDR4 board. - SDIW612 for the i.MX 8M Plus EVK and i.MX 8ULP EVK board.

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
										• PCIe9098 (Murata LBEE5 ZZ1XL) for the i.MX 8MQuad EVK Rev. A board, i.MX 8Quad Max MEK, and i.MX 8Quad XPlus MEK boards. • PCIe9098/SDIW612 for i.MX 95 EVK. • AW693 for i.MX 952 EVK. Features: • STA mode • AP mode • Wi-Fi Direct • AP/STA Concurrency • MAC randomization
Connectivity - USB Tethering	Y	Y	Y	Y	Y	Y	Y	Y	Y	Supports Wi-Fi and Ethernet as upstream.
Power - CPU Freq	Y	Y	Y	Y	N	Y	Y	Y	Y	-
Power - Bus Freq	Y	Y	Y	Y	N	Y	Y	Y	Y	-
ISP	N	N	Y	N	N	N	N	Y	Y	VeriSilicon ISP8000NANO_V1802 with 4.2.2_2026.2 driver/server for i.MX 8M Plus EVK. Supports AWB/AGC/AEC for i.MX 95 EVK, i.MX 95 FRDM, and i.MX 952 EVK,
Media - Music Play	Y	Y	Y	Y	Y	Y	Y	Y	Y	SSI+WM8524 for i.MX 8M Mini EVK, i.MX 8M Nano EVK, and i.MX 8M Quad EVK. SSI+WM8960+PCM512 (for powersave image) for i.MX 8M Plus EVK. SSI+WM8960 for i.MX 8ULP EVK. WM8960+CS42888+HDMI for i.MX 8Quad Max MEK. WM8960+CS42888 for i.MX 8QuadXPlus MEK. WM8962+CS42888 for i.MX 95 EVK and i.MX 952 EVK. MQS for FRDM i.MX 95.
Media - Sound Record	Y	Y	Y	Y	Y	Y	Y	Y	Y	PDM for i.MX 8M Mini EVK, i.MX 8M Nano EVK, and FRDM i.MX 95. AK5558 for i.MX 8M Quad EVK. SSI+WM8960+PDM for i.MX 8M Plus EVK.

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8 Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
										SSI+WM8960 for i.MX 8ULP EVK. ESAI+CS42888 for i.MX 8Quad Max MEK and i.MX 8 QuadXPlus MEK. WM8962+PDM for i.MX 95 EVK and i.MX 952 EVK.
Media-Compress Playback	N	N	Y	N	N	Y	Y	N	N	Compress MP3 playback through Sound Open Firmware (SOF).
Media-SOF Audio	-	-	-	-	-	-	-	Y / N	N	PCM playback and capture through SOF on i.MX 95 EVK.
Media - Video Play	Y	Y	Y	Y	Y	Y	Y	Y	Y	For i.MX 8M Mini, i.MX 8M plus, i.MX 8M Quad, i.MX 8 QuadMax, and i.MX 8Quad XPlus, which have VPU integrated, see the <i>i.MX Android Extended Codec Release Notes</i> (RN00202) to find the information about the supported format, resolution, frame rate, and bit rate. For i.MX 8M Nano and i.MX 8ULP, which do not have VPU integrated, the video playback is supported by Google software decoder. For i.MX 8QuadMax, i.MX 8QuadXPlus, i.MX 95, and i.MX 952, if Trusty OS is used, see Section "Secure firmware loader" in the <i>i.MX Android Security User's Guide</i> (UG10158) to flash the keys related to the firmware loader manually so that the video can play back normally.
Media-HDR Video Play	N	N	N	Y	N	N	N	N	N	-
Media - Camera	Y	Y	Y	Y	Y	Y	Y	Y	Y	OV5640 CSI MIPI camera for i.MX 8M Mini EVK, i.MX 8M Nano EVK, i.MX 8M Quad EVK, i.MX 8ULP EVK, i.MX 8Quad Max MEK, and i.MX 8 QuadXPlus MEK. For i.MX 8M Plus EVK: - Two Basler cameras (maximum resolution 1920 x 1080) - Basler + OV5640 (Basler maximum resolution 3840 x 2160 depends on the boot parameter)

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8 Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
										- Single Basler (maximum resolution 3840 x 2160 depends on the boot parameter) - Single OV5640 - Two OS08A20 (maximum resolution 1920 x 1080) - Single OS08A20 (maximum OS08A20 resolution can reach 3840 x 2160, depending on the boot parameter) For i.MX 95 EVK and i.MX 952 EVK: - OS08A20 or AP1302
Media - Camera DeviceAs Webcam	Y	Y	N	Y	Y	Y	Y	Y	N	Supports MJPEG 1080p and MJPEG 720p streams on i.MX 8M Mini EVK, i.MX 8M Nano EVK, i.MX 8M Plus EVK, i.MX 8M Quad EVK, i.MX 8Quad Max MEK, i.MX 8QuadXPlus MEK, i.MX 95 EVK, and FRDM i.MX 95. Supports MJPEG 480p stream on i.MX 8ULP EVK. For i.MX 8M Quad, it is only supported on the EVK board, not on the WEVK board.
Media HDMI RX	N	N	N	N	N	Y	N	N	N	-
Media - TVIN	N	N	N	N	N	N	N	N	N	-
Media - Dual Camera	Y	Y	Y	Y	Y	Y	Y	Y	Y	For i.MX 95 EVK and i.MX 952 EVK: OS08A20 + OS08A20
Media - Camcorder	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Media - USB Camera	Y	Y	Y	Y	Y	Y	Y	Y	Y	USB camera supports C920, C930, and C270 for i.MX 8M Mini EVK, i.MX 8M Nano EVK, i.MX 8M Quad EVK, i.MX 8M Plus EVK, i.MX 8Quad Max MEK, i.MX 8QuadXPlus MEK, i.MX 95 EVK, and i.MX 952 EVK. USB camera supports C270 for i.MX 8ULP EVK. It can only work with the Camera2Basic application.
Media - USB Mic	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Media - HDMI audio output	N	N	Y	Y	Y	Y	N	N	N	-

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
Media-DSD Playback	Y	N	N	Y	N	N	N	Y	N	DSD playback on Audio Expansion Board.
Media-MCU Playback	Y	N	Y	N	Y	N	N	Y/N	Y	Audio playback based on: - FreeRTOS on the Cortex-M4 core for i.MX 8M Mini EVK. - FreeRTOS on the Cortex-M7 core for i.MX 8M Nano EVK. - FreeRTOS on Cortex-M33 core for i.MX 8ULP EVK. - FreeRTOS on Cortex-M7 core for i.MX 95 19x19 EVK and i.MX 952 EVK.
Media-Audio HAT	N	N	N	N	N	N	N	N/Y	N	-
Media-MQS audio output	N	N	N	N	N	N	N	N/Y	Y	-
Media-Hi-Res audio output	Y	N	N	Y	N	Y	Y	Y	Y	High-resolution audio output from Audio. Expansion Board for i.MX 8M Mini EVK and i.MX 8M Quad EVK: 2-channel: 384000, 768000 sampling rate 4-channel: 48000, 96000, 192000, 384000, 768000 sampling rate 6-channel: 48000, 96000, 192000, 384000 sampling rate 8-channel: 48000, 96000, 192000, 384000, 768000 sampling rate For i.MX 8Quad Max MEK, i.MX 8QuadXPlus MEK, i.MX 95 EVK, and i.MX 952 EVK: 4/6/8-channel: 48000, 96000, 192000 sampling rate
Media-Play Ready DRM	N	N	N	N	N	N	N	N	N	-
Media-Wide Vine DRM	N	N	N	N	N	N	N	Y	Y	Supports WideVine DRM Level 1 and Level 3, Widevine CDM version 19.6.0 and OPK version 19.6.
Misc - ADB over USB	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Misc - Fastboot utility	Y	Y	Y	Y	Y	Y	Y	Y	Y	-

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8 Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
Misc - Factory reset	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Misc- Recovery mode	Y	Y	Y	Y	Y	Y	Y	Y	Y	Supports installing updates and wiping data.
Powerkey- Suspend & Resume	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Battery- Charger mode	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Sensor - Magnetometer	N	N	N	N	N	Y	Y	N	N	FXOS8700
Sensor - Accelerometer	N	N	N	N	N	Y	Y	N	N	FXOS8700
Sensor - Gyroscope	N	N	N	N	N	Y	Y	N	N	FXAS2100
Sensor - Light	N	N	N	N	N	Y	Y	N	N	ISL29023
Sensor - Pressure	N	N	N	N	N	Y	Y	N	N	MPL3115
Sensor - Temperature	N	N	N	N	N	Y	Y	N	N	MPL3115
Sensor - Pedometer	N	N	N	N	Y	N	N	N	N	-
File Based Encryption	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
USB Accessory	Y	Y	Y	Y	Y	Y	Y	Y	Y	Google AOA v2.0
USB-MTP	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
USB-PTP	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
USB-MIDI	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Real Time Clock (RTC)	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Screen Recording	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Ethernet APK	N	N	N	N	N	N	N	N	N	-
imx-chip-tool APK	N	Y	N	N	N	N	N	N	N	Supports Matter devices control tool imx-chip-tool apk.
webGL	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
Vulkan	N	Y	Y	Y	Y	Y	Y	N	Y	Version 1.3 for i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8Quad Max, and i.MX 8Quad XPlus.

Table 3. Features...continued

Feature	i.MX 8M Mini EVK	i.MX 8M Nano EVK	i.MX 8M Plus EVK	i.MX 8M Quad WEVK/ EVK	i.MX 8ULP EVK	i.MX 8Quad Max MEK	i.MX 8 Quad XPlus MEK	i.MX 95 19x19 EVK/ FRDM i.MX 95	i.MX 952 EVK	Remarks
										Version 1.4 for i.MX 95 and i.MX 952.
Neural Networks	N	Y	Y	Y	Y	Y	Y	Y	Y	-
OTA for A/B	Y	Y	Y	Y	Y	Y	Y	Y	Y	Supports OTA with secure boot and encrypted boot.
USB Type-C PD	Y	Y	Y	Y	N	Y	Y	Y	Y	Supports power role switch with devices that support USB power delivery.
DM Verity	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
TEE backed Keymint HAL	Y	Y	Y	Y	Y	Y	Y	Y	Y	This is based on i.MX Trusty OS TEE firmware.
TEE backed AVB	Y	Y	Y	Y	Y	Y	Y	Y	Y	This is based on i.MX Trusty OS TEE firmware and secure storage of eMMC chip. In this release, users need to initialize the RPMB part manually.
Secure boot	Y	Y	Y	Y	Y	Y	Y	Y	Y	Secure boot based on HABv4 for i.MX 8M Mini EVK, i.MX 8M Nano EVK, i.MX 8M Plus EVK, and i.MX 8M Quad EVK. Secure boot based on AHAB for i.MX 8ULP EVK, i.MX 8Quad Max MEK, i.MX 8 QuadXPlus MEK, i.MX 95 EVK, and i.MX 952 EVK.
Encrypted boot	Y	Y	Y	Y	Y	Y	Y	Y	Y	-
TEE backed security	Y	Y	Y	Y	Y	Y	Y	Y	Y	This is based on the i.MX Trusty OS TEE firmware.
Software backed OEM unlock	Y	Y	Y	Y	Y	Y	Y	Y	Y	Supports software backed OEM Lock AIDL and store the oem unlocking flag to the fbmisc partition.
Virtualization Android	N	N	N	N	N	N	N	Y	N	Supports virtualization Android on i.MX 95 Xen.
EdgeLock Secure Enclave HAL	N	N	N	N	N	N	N	Y	Y	Supports EdgeLock Secure Enclave (ELE) HAL.

5 Multimedia Codecs

For multimedia codecs and features, see the *i.MX Android Extended Codec Release Notes* (RN00202).

6 Extended Features

An enhanced multimedia experience is available for the Android platform.

This release delivers an error-resilient, feature-rich multimedia solution by extending the existing multimedia features of the Android platform and introduces additional features. Extended codec packages are provided on nxp.com with controlled access because they require additional licensing by a third party. Contact your sales representative for access.

For detailed extended and additional features, see the *i.MX Android Extended Codec Release Notes* (RN00202).

7 Change Logs

Compared to the android-16.0.0_1.4.0 release, android-16.0.0_2.0.0 release has the following major changes:

- Upgraded the i.MX kernel from v6.12.58 to v6.18.21.
- Upgraded the GKI kernel from android16-6.12-2025-12_r7 to android17-6.18.
- Supports the FRDM i.MX 95 platform and drop the i.MX 95 15x15 EVK and i.MX 95 Verdin EVK platforms.
- Supports the i.MX 952 19x19 EVK and i.MX 952 15x15 EVK platforms.
- Integrated the Wi-Fi/BT WCS 26Q2 release.
- Upgraded the VTS tool to 16.1_r3.
- Upgraded the STS tool to 16_sts-r51.
- Upgraded the GTS tool to 13.1-R2.
- Upgraded ATF to lf_v2.14.
- Upgraded U-Boot from v2025.04 to v2026.04.
- Supports the WaveShare panel display on the FRDM i.MX 95 platform.
- Upgraded ISP from 4.2.2_p25.4 to 4.2.2_2026.2.
- Upgraded G2D from version 2.5 to 2.6.
- Upgraded Widevine CDM from version 19.5.0 to 19.6.0.

8 Known Issues and Limitations

The known issues about the hardware and hardware rework instructions are not included in this document. There may be hardware-related reference materials for some reference boards. Make sure to check the link [i.MX Application Processors](#) to see if it is applicable.

Table 4. Known issues and limitations

Issue description	Remarks
The Google USB driver must be installed multiple times for the MTP, PTP, MTP&ADB, PTP&ADB, and ADB function settings.	Some Windows XP environments may display MTP and PTP windows even with only PTP enabled in the device.
U-Boot hangs when erasing Kingston SD card.	U-Boot hangs when sending the erase command on some Kingston SD cards.
Manufacturing protection feature is not supported on i.MX 8ULP and i.MX 95, so features that require the manufacturing protection public key like secure unlock and secure provisioning would not be supported.	-
For i.MX 95 EVK, the USB-Type C port vbus is connected to a 3.3-V power source. Once it is connected to the host and successfully enumerated by the host, the gadget stage is changed to be configured, and the USB HAL acquires its wakelock. Disconnection from the host does not generate a disconnection	-

Table 4. Known issues and limitations...continued

Issue description	Remarks
interrupt. The gadget state keeps unchanged, and the USB HAL does not release its wakelock.	
The i.MX 95 EVK sometimes cannot be powered on by the power switch or PDU due to the PMIC hardware issue.	-
The i.MX 8MQuad WEVK/EVK AUDIO input feature is disabled by default because it does not have an audio input device.	To enable it with an audio board, set the following <code>bootconfig</code> in U-Boot. <pre>setenv append_bootconfig androidboot.audio.tinyalsa.simulate_input=false</pre>
If the USB camera is declared to be supported, the CTS test requires a USB camera to be connected.	To remove the limitation, export an environment variable with the command <code>export PERMISSION_EXTCAM=false</code> when building the image to not include <code>android.hardware.camera.external.xml</code> under <code>/vendor/etc/permissions</code> . For details, see section "Customized configuration" in the <i>Android User's Guide</i> (UG10156).
Due to a hardware issue, the i.MX 952 19x19 EVK and the i.MX 952 15x15 EVK board may fail to boot up after a software reboot or full reset by command. In such cases, a hardware reset or power cycle is required to restart the board.	-

9 Revision History

Revision history

Document ID	Release date	Description
RN00201 v.android-16.0.0_2.0.0	24 July 2026	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus, i.MX 95 GA release, and i.MX 952 Beta release.
RN00201 v.android-16.0.0_1.4.0	1 April 2026	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus, and i.MX 95 GA release.
RN00201 v.android-16.0.0_1.2.0	6 January 2026	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus, and i.MX 95 GA release.
RN00201 v.android-16.0.0_1.0.0	28 October 2025	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, and i.MX 95 Beta release.
RN00201 v.android-15.0.0_2.0.0	24 July 2025	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, i.MX 95 19x19 EVK Beta release, and i.MX 95 15x15 EVK Alpha release.
RN00201 v.android-15.0.0_1.2.0	11 April 2025	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, and i.MX 95 Beta release.
RN00201 v.android-15.0.0_1.0.0	24 January 2025	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, and i.MX 95 Beta release.

Revision history...continued

Document ID	Release date	Description
RN00201 v.android-14.0.0_2.2.0	18 October 2024	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, i.MX 95 (A1 15x15) Alpha release, and i.MX 95 (A1 19x19) Beta release.
RN00201 v.android-14.0.0_2.0.0	9 August 2024	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, and i.MX 95 Alpha release. Updated the document ID.
ARN v.android-14.0.0_1.2.0	19 April 2024	i.MX 8ULP EVK, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
ARN v.android-14.0.0_1.0.0	6 February 2024	i.MX 8ULP EVK, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
ARN v.android-13.0.0_2.2.0	24 October 2023	i.MX 8ULP EVK, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
ARN v.android-13.0.0_2.0.0	07/2023	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
ARN v.android-13.0.0_1.2.0	03/2023	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
ARN v.android-13.0.0_1.0.0	01/2023	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
ARN v.android-12.1.0_1.0.0	10/2022	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
ARN v.android-12.0.0_2.0.0	07/2022	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
ARN v.android-12.0.0_1.0.0	03/2022	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
ARN v.android-11.0.0_2.6.0	01/2022	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
ARN v.android-11.0.0_2.4.0	10/2021	i.MX 8ULP EVK Alpha release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
ARN v.android-11.0.0_2.2.0	07/2021	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
ARN v.android-11.0.0_2.0.0	04/2021	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
ARN v.android-11.0.0_1.0.0	12/2020	i.MX 8M Plus EVK Beta release, and all the other i.MX 8 GA release.
ARN v.android-10.0.0_2.3.0	07/2020	i.MX 8M Plus EVK Beta1 release, and all the other i.MX 8 GA release.

Revision history...continued

Document ID	Release date	Description
ARN v.android-10.0.0_2.0.0	05/2020	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Quad, i.MX 8Quad Max, and i.MX 8QuadXPlus GA release.
ARN v.android-10.0.0_2.1.0	04/2020	i.MX 8M Plus Alpha and i.MX 8QuadXPlus Beta release.
ARN v.android-10.0.0_1.0.0	03/2020	Deleted the Android 10 image.
ARN v.android-10.0.0_1.0.0	02/2020	i.MX 8M Mini, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
ARN v.P9.0.0_2.0.0-ga	08/2019	Updated the location of the SCFW porting kit.
ARN v.P9.0.0_2.0.0-ga	04/2019	i.MX 8M, i.MX 8QuadMax, i.MX 8QuadXPlus GA release.
ARN v.P9.0.0_1.0.0-ga	01/2019	i.MX 8M, i.MX 8QuadMax, i.MX 8QuadXPlus GA release.
ARN v.P9.0.0_1.0.0-beta	11/2018	Initial release

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