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8MPLUSLPD4-EVK: Evaluation Kit for the i.MX 8M Plus Applications Processor

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PRODUCTS APPLICATIONS DESIGN

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Overview

PREPRODUCTION

The i.MX 8M Plus EVK provides a platform for comprehensive evaluation of the i.MX 8M Plus Quad/Dual and i.MX 8M Plus Quad/Lite applications processors. It delivers high performance with power efficiency, machine learning and voice and vision capabilities, advanced multimedia interfaces and Wi-Fi/BT for connectivity out-of-the box.

The two-board solution consists of a compact 2.3"x2.3" compute module and a larger base board that brings out the broad connectivity that is needed for product evaluation. The compute module is a proven, compact reference to accelerate your own design.

This page contains information on a preproduction product. Specifications and information here in are subject to change without notice. All purchase requests are subject to approval.

Less ^

Target Applications

Anesthesia Unit Monitor (/applications/industrial/healthcare/anesthesia-unit-monitor:ANESTHESIA-UNIT-MONITOR)

Anomaly Detection (/applications/industrial/factory-automation/anomaly-detection:ANOMALY-DETECTION)

Avionics (/applications/industrial/aerospace-and-mobile-robotics/avionics:AVIONICS)

Building Safety (/applications/industrial/building-control/building-safety:BUILDING-SAFETY)

Defibrillator (/applications/industrial/healthcare/defibrillator:DEFIBRILLATORS)

Electricity Generation (/applications/industrial/power-and-energy/electricity-generation:ELECTRICITY-GENERATION)

Electricity Grid and Distribution (/applications/industrial/power-and-energy/electricity-grid-and-distribution:ELECTRICITY-GRID-DISTRIBUTION)

Factory Automation

Hospital Admission Machine (/applications/industrial/healthcare/hospital-admission-machine:HOSPITAL-ADMISSION-MACHINE)

Intermediate Flight Controller (/applications/industrial/aerospace-and-mobile-robotics/intermediate-flight-controller:INTERMEDIATE-FLIGHT-CONTROLLER)

Medical Imaging (/applications/industrial/healthcare/medical-imaging:MEDICAL-IMAGING)

Powered Patient Beds (/applications/industrial/healthcare/powered-patient-beds:POWERED-PATIENT-BEDS)

Vision, Advanced Sensing and Processing Board (/applications/industrial/aerospace-and-mobile-robotics/vision-advanced-sensing-and-processing-board:ADVANCED-SENSING-BOARD)

AI Home Server and Alarm Hubs

Home Automation

In-Home Energy Display (/applications/smart-home/home-control-and-security/in-home-energy-display:IN-HOME-ENERGY-DISPLAY)

Automatic Vehicle Identification (/applications/smart-city/transportation/automatic-vehicle-identification:AUTOMATIC-VEHICLE-ID)

Building Security (/applications/smart-city/access/building-security:BUILDING-SECURITY)

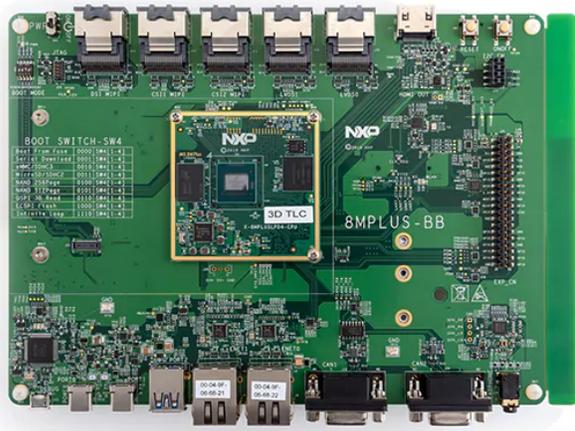
Fleet Management (/applications/smart-city/retail/fleet-management:FLEET-MANAGEMENT)

Industrial Control (/applications/industrial/factory-automation/industrial-control:INDUSTRIAL-CONTROL)

Industrial HMI (/applications/industrial/factory-automation/industrial-hmi:INDUSTRIAL-HMI)

Motor Drives (/applications/industrial/aerospace-and-mobile-robotics/motor-drives:MOTOR-DRIVES)

Safety, Security, and Surveillance



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i.MX 8M Plus EVK TOP



i.MX 8M Plus EVK Angle



i.MX 8M Plus EVK TOP

Supported Devices

Processors and Microcontrollers

i.MX 8 Processors

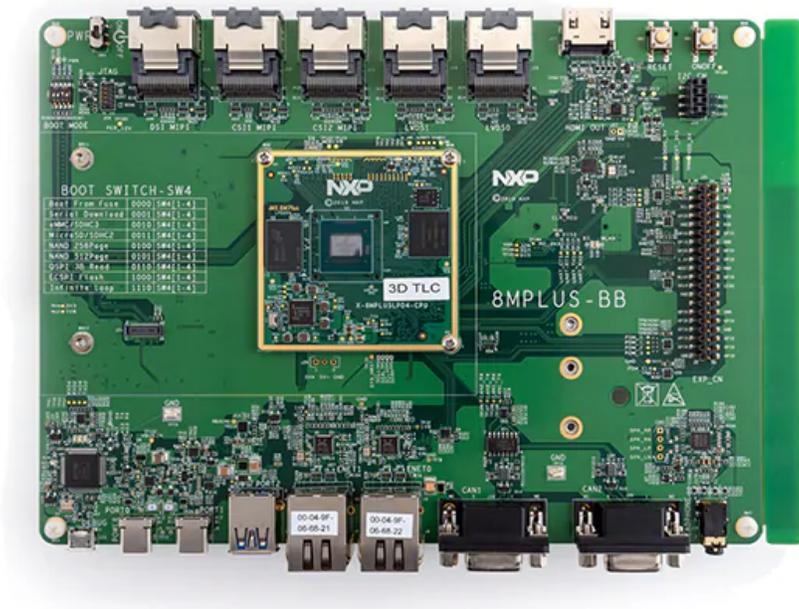
- IMX8MPLUS (/products/processors-and-microcontrollers/arm-processors/i-mx-applications-processors/i-mx-8-processors/i-mx-8m-plus-arm-cortex-a53-machine-learning-vision-multimedia-and-industrial-iot:IMX8MPLUS) :i.MX 8M Plus – Arm® Cortex®-A53, Machine Learning, Vision, Multimedia and Industrial IoT

Specifications

Technical and Functional Specifications

Processor	<ul style="list-style-type: none">• i.MX 8M Plus Quad applications processor• 4x Arm® Cortex-A53 up to 1.8 GHz• 1x Arm® Cortex-M7 up to 800 MHz• Cadence® Tensilica® HiFi4 DSP up to 800 MHz• Neural Processing Unit
Memory	<ul style="list-style-type: none">• 6 GB LPDDR4• 32 GB eMMC 5.1• 32 MB QSPI NOR
Display and Camera Interfaces	<ul style="list-style-type: none">• 1x MIPI-DSI interface (Mini-SAS connector)• 1x LVDS interface (Mini-SAS connector)• 2x MIPI-CSI interfaces (Mini-SAS connector)• 1x HDMI 2.0a connector with eARC
Wireless	<ul style="list-style-type: none">• Azurewave AW-CM276MA-07H 802.11b/g/n/ac, 2x2 MIMO, BT4.2
Audio	<ul style="list-style-type: none">• Audio DAC• Microphone/headphone jacks
Connectivity	<ul style="list-style-type: none">• 2x 10/100/1000 Ethernet port (1x w/ TSN)• USB 3.0 Type C for Power• USB 3.0 Type A• USB 3.0 Type C• PCIe M.2 interface• 2x CAN FD DB9 Female connectors
Debug	<ul style="list-style-type: none">• JTAG Connector
Tools & OS support	<ul style="list-style-type: none">• Linux• Android• FreeRTOS

Buy



8MPLUSLPD4-EVK (/part/8MPLUSLPD4-EVK) ACTIVE

Evaluation Kit for the i.MX 8M Plus Applications Processor

Kit contains:

- i.MX 8M Plus CPU module
- Base board
- USB 3.0 to Type C cable.
- USB A to micro B cable
- USB Type C power supply

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