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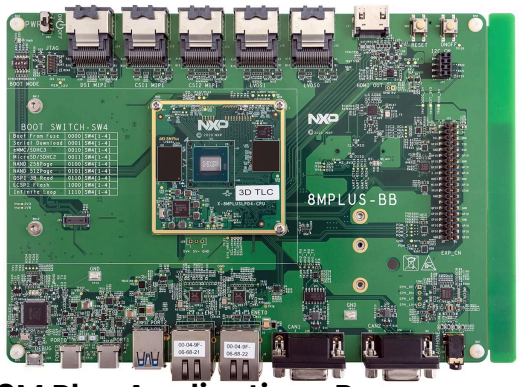
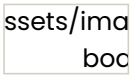
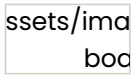
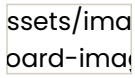
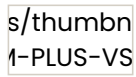
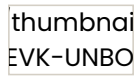
Evaluation Kit for the i.MX 8M Plus Applications Processor

8MPLUSLPD4-EVK Receive alerts



(//www.nxp.com) **Evaluation Kit for the i.MX 8M Plus Applications Processor**

Roll over image to zoom in

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 QuadLite 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.

Product Details

Supported Devices | Features | Applications

Supported Devices

Processors and Microcontrollers

i.MX 8 Applications Processors	• **IMX8MPLUS** (/products/processors-and-microcontrollers/arm-processors/i-mx-applications-processors/i-mx-8-applications-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

Features

Processor	• 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	• 6 GB LPDDR4 • 32 GB eMMC 5.1 • 32 MB QSPI NOR
Display and Camera Interfaces	• 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	• AzureWave AW-CM276MA (NXP 88W8997): Wi-Fi 5 (802.11ac) 2x2 dual-band (2.4/5GHz) and Bluetooth 5.1
Audio	• Audio DAC • Microphone/headphone jacks
Connectivity	• 2x 10/100/1000 Ethernet port (1x w/ TSN) • USB 3.0 Type C for Power

Applications

Industrial

Avionics (/applications/industrial/aerospace/avionics:AVIONICS)

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

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

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

Factory Automation

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

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

Motor Drives (/applications/industrial/factory-automation/motor-drives:MOTOR-DRIVES)

Solar Photovoltaic (PV) Energy Generation (/applications/industrial/power-and-energy/solar-photovoltaic-pv-energy-generation:ELECTRICITY-GENERATION)

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

Smart City

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

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

Smart Home

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)

Buy Options