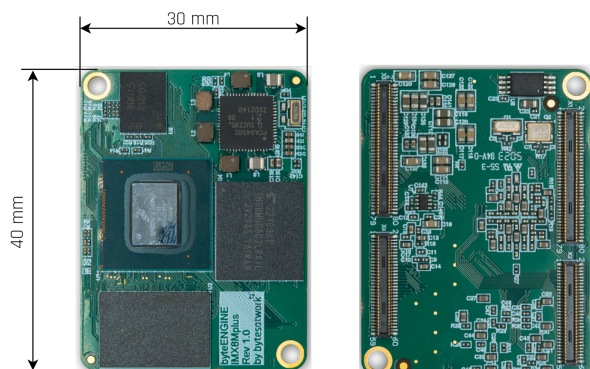


DIMENSIONS

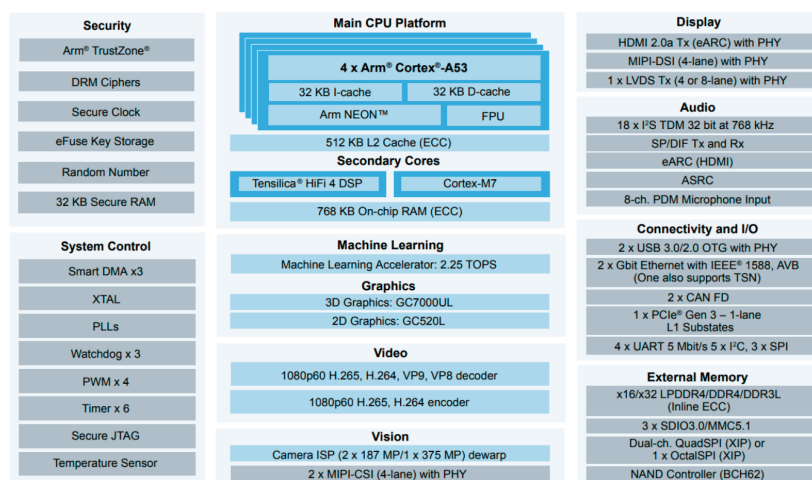


FEATURES

Dedicated AI & Machine Learning capabilities with a Neural Processing Unit (NPU), dual image signal processors (ISP) and advanced multimedia connectivity. Designed for Smart Home, Smart Building, Smart City and Industry 4.0 applications.

- Quad core ARM® Cortex®-A53 and Cortex®-M7 MCU
- Neural Processing Unit
- Dual Image Signal Processor and 1080p60 video encode / decode
- High-speed LPDDR4 memory interface
- Small format, high performance
- ARM® Trust Zone® support

BLOCK DIAGRAM



YOUR CUSTOMIZED MODULE

Manufacturing customized module variants starting from small quantities is our strength. Contact us for a non-binding inquiry.

USE CASES

- Factory Automation / PLC
- Industrial HMI
- Industrial Gateway
- Smart Home, Smart Building, Smart City Applications
- AI Applications

MODULE SPECIFICATION

CPU	Up to Quad core ARM® Cortex® A53 of NXP i.MX 8M Plus CPU Family
Co-CPU	Cortex® M7 MCU up to 800 MHz
Frequency	Up to 1.8 GHz
Memory	256 MB to 8192 MB LPDDR4
Flash eMMC	up to 128 GB
Temperature	Industrial: -40 to +85° C , consumer: 0 to 85° C
Power	5.0 V, max. 4W
Dimensions	40 x 30 x 4 mm
Connector	2x 80 PIN and 2x 60 PIN
Software Support	Yocto Linux, Debian, Zephyr RTOS and more
Interfaces	DSI, CSI, PCIe, NCVV, LVDS, USB, UART, I2C, SPI, Ethernet, PWM, HDMI, CAN, SAI
GPU	GC7000UL with OpenCL and Vulkan support
Display	MIPI DSI up to UWHd and WUXGA, LVDS up to 1920x1080p60, HDMI up to 4kp30
Safety Features	Prepared for functional safety applications
Longevity	Yes



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Email

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Website

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Help

bytewiki.readthedocs.io



Further Product Information

i.MX 8M Plus
Modules

