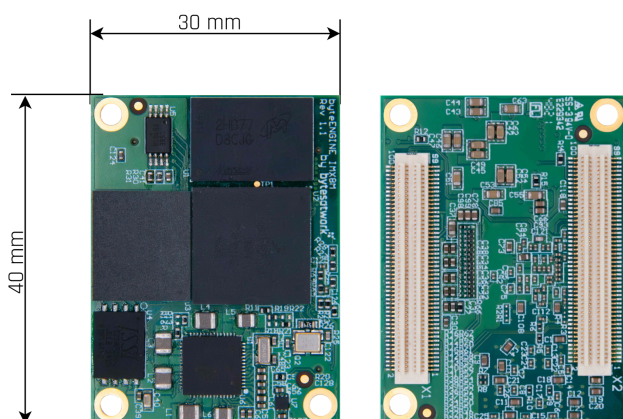


DIMENSIONS

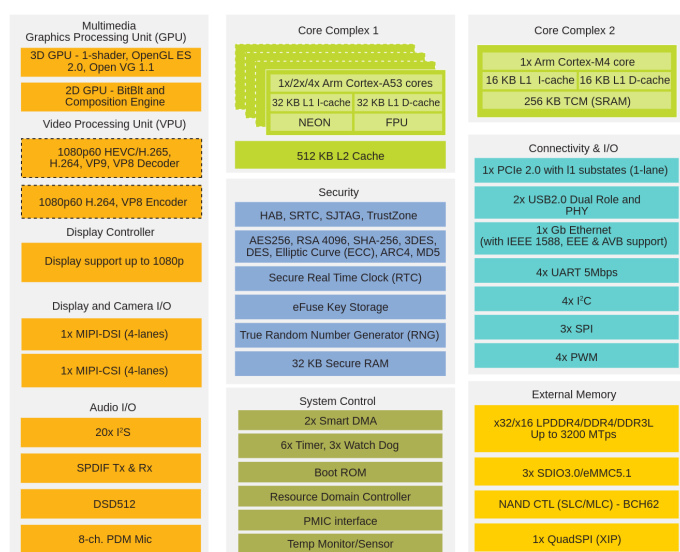


FEATURES

Advanced processing capabilities with sophisticated audio, video and graphics to deliver low-power and high-performing solutions.

- Quad core ARM® Cortex®-A53 and Cortex®-M4 MCU
- VIVANTE GC NANO Ultra 3D GPU
- Video processing Unit
- High-speed LPDDR4 memory interface
- Small format, high performance
- Trust Zone® support

BLOCK DIAGRAM



Optional Capability

USE CASES

- Generic HMI
- Edge Applications

MODULE SPECIFICATION

CPU	Up to Quad core ARM® Cortex® A53 of NXP i.MX8M Mini CPU Family
Co-CPU	Cortex® M4F MCU 400 MHz
Frequency	Up to 1.8 GHz
Memory	512 MB to 4096 MB LPDDR4
Flash eMMC	up to 64 GB
Temperature	Industrial: -40 to +85° C , consumer: 0 to 85° C
Power	5.0 V, max. 4 W, typical 2 W
Dimensions	40 x 30 x 5 mm
Connector	2x 100 PIN
Software Support	Yocto Linux, Debian, Zephyr RTOS and more
Interfaces	SPDIF, I2C, USB, UART, Ethernet, JTAG, ECSPi, SAI, SD, GPIO, PCIe, DSI, CSI
GPU	VIVANTE GC NANO Ultra 3D GPU
Display	1080p60 Display support, 4-lane
Safety Features	Prepared for functional safety applications
Longevity	Yes

YOUR CUSTOMIZED MODULE

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



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Help

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Further Product Information

I. MX 8M Mini Modules

