



# i.MX 8M Plus – Arm® Cortex® – A53, Machine Learning, Vision, Multimedia and Industrial IoT

## IMX8MPLUS

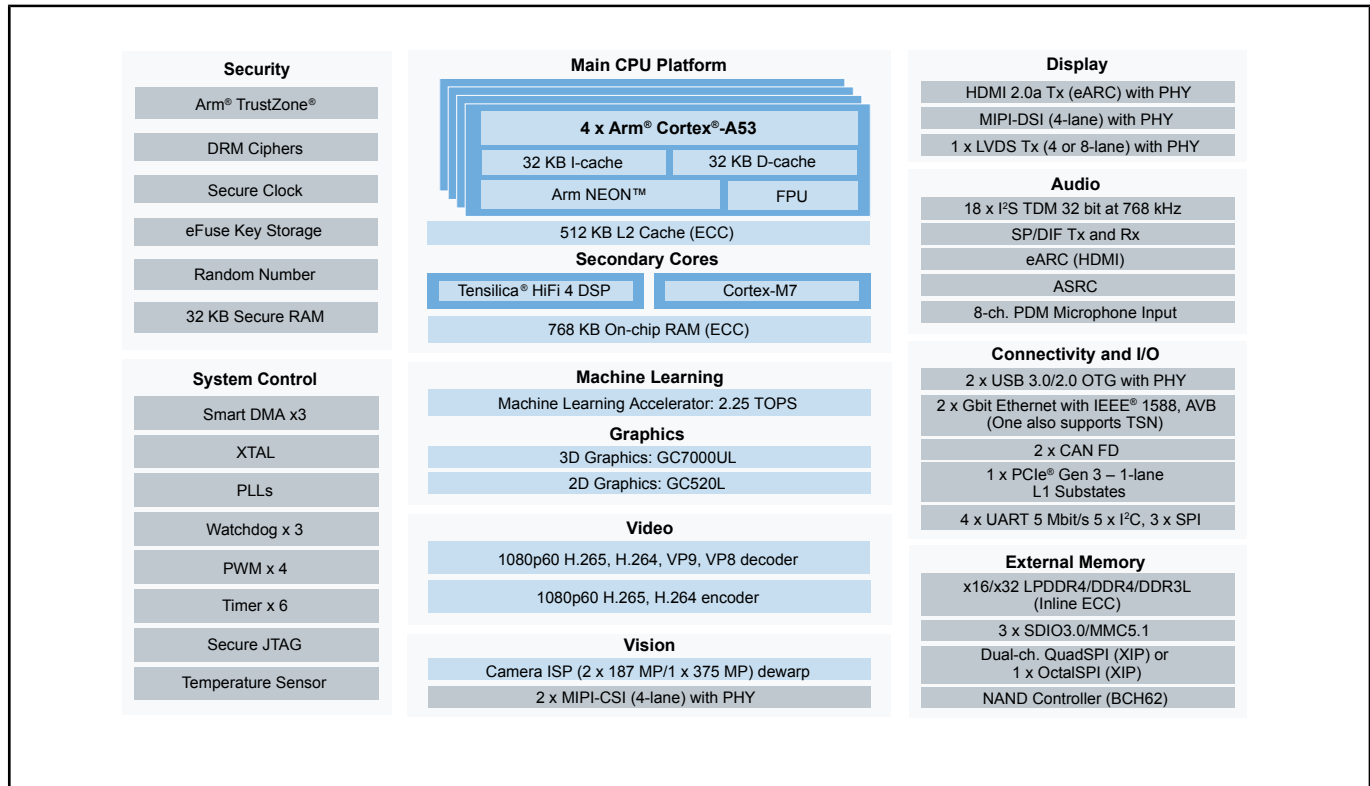
Last Updated: Apr 11, 2024

The i.MX 8M Plus family focuses on machine learning and vision, advanced multimedia, and industrial automation with high reliability. It is built to meet the needs of Smart Home, Building, City and Industry 4.0 applications.

- Powerful quad or dual Arm® Cortex®-A53 processor with a Neural Processing Unit (NPU) operating at up to 2.3 TOPS.
- Dual image signal processors (ISP) and two camera inputs for an effective advanced vision system.
- The multimedia capabilities include video encode (including h.265) and decode, 3D/2D graphic acceleration, and multiple audio and voice functionalities.
- Real-time control with Cortex-M7. Robust control networks supported by dual CAN FD and dual Gigabit Ethernet with Time Sensitive Networking (TSN).
- High industrial reliability with DRAM inline ECC.

i.MX 8 applications processors are part of NXP's EdgeVerse™ [edge computing](#) platform.

# i.MX 8M Plus Processors Block Diagram



View additional information for [i.MX 8M Plus – Arm® Cortex®-A53, Machine Learning, Vision, Multimedia and Industrial IoT](#).

**Note:** The information on this document is subject to change without notice.

**www.nxp.com**

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2024 NXP B.V.