



i.MX 8 Family – Arm® Cortex®-A53, Cortex-A72, Virtualization, Vision, 3D Graphics, 4K Video

i.MX8

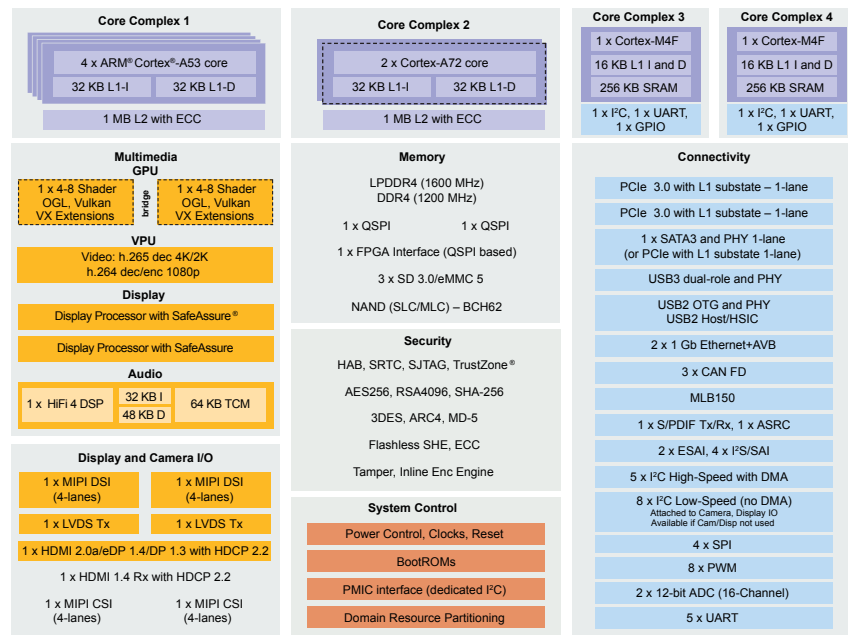
Last Updated: Dec 22, 2025

- Fast multi-OS platform deployment via advanced full-chip hardware virtualization and domain protection
- Deploy rich, fully-independent graphics content across 4x HD screens or 1x 4K screen
- Incorporate Vision and Speech Recognition interactivity via a powerful vision pipeline and audio processing subsystem
- Rapidly deploy multiple products by utilizing pin and power compatible packages and software friendly copy-exact IP blocks
- Android™, Linux®, FreeRTOS, QNX™, Green Hills®, Dornerworks XEN™
- Automotive AEC-Q100 Grade 3 (-40° to 125° C Tj), Industrial (-40° to 105° C Tj)
- Fully supported on NXP's 10 and 15-year Longevity Program

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

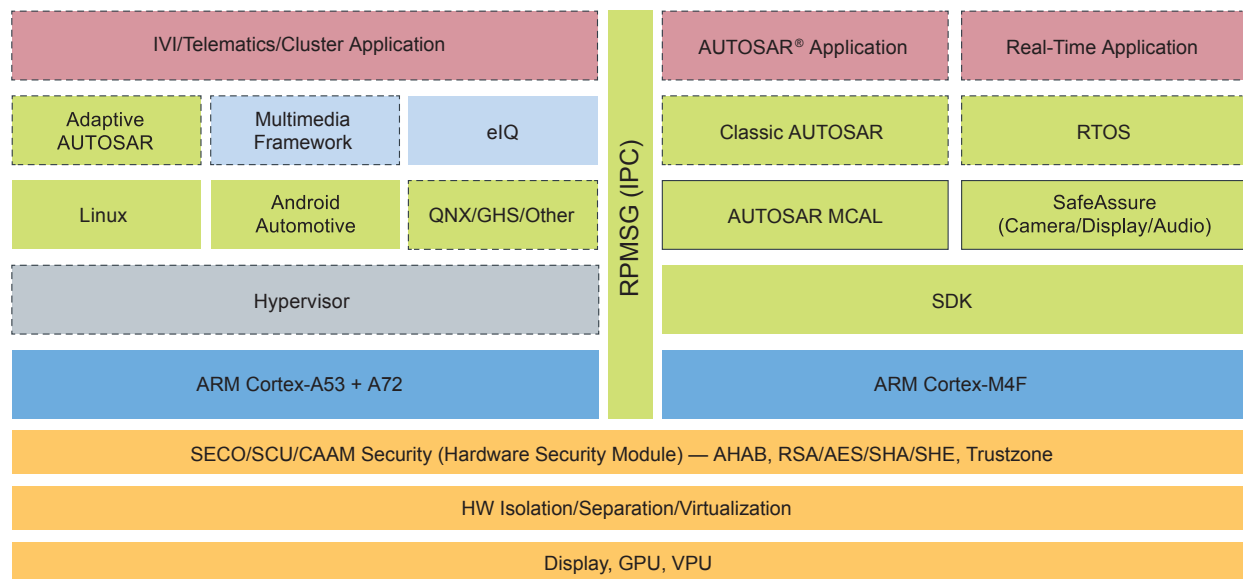
For additional information and sample availability, contact [NXP Support](#).

i.MX 8 Processors Block Diagram



Available on certain product families Note: Accessing muxable controller's full capabilities is dependent upon board component choices.

i.MX 8QM Software Ecosystem Block Diagram



Production Quality Third Party * Reference

View additional information for [i.MX 8 Family – Arm® Cortex®-A53, Cortex-A72, Virtualization, Vision, 3D Graphics, 4K Video](#).

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

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