Scalable multicore solutions breaking the boundaries of user experience

i.MX 6 Series of Applications Processors

The i.MX 6 series of applications processors is a feature- and performance-scalable multicore platform that includes single-, dual- and quad-core families based on the ARM® Cortex® architecture, including the Cortex-A9 core, combined Cortex-A9 + Cortex-M4 cores and Cortex-A7-based solutions up to 1.2 GHz.

TARGET APPLICATIONS
- Automotive infotainment
- Digital signage
- Digital cluster
- E-Readers
- Human-machine interface
- Home energy management systems
- In-flight entertainment
- Intelligent industrial control systems
- IoT gateways
- IP phones
- Point-of-sale devices
- Portable medical devices
- Tablets

Targeting consumer, industrial and automotive applications, the i.MX 6 series combines broad levels of integration and power-efficient processing capabilities all the way up to bleeding edge 3D and 2D graphics, as well as high-definition video, to provide a new level of multimedia performance for an unbounded next-generation user experience. The i.MX 6 series is supported by our proprietary companion power management integrated circuits (PMICs).

ELEVEN SCALABLE FAMILIES

The i.MX 6QuadPlus family encompasses a quad-core platform running up to 1.2 GHz with 1 MB of L2 cache, hardware accelerated graphics and 64-bit DDR3 or 2-channel, 32-bit LPDDR2 support. Integrated FlexCAN and MLB busses, PCI Express® and SATA-2 provide excellent connectivity while integration of dual-lane MIPI display ports, a MIPI camera port and HDMI v1.4 makes it an ideal platform for consumer, automotive and industrial multimedia applications.

The i.MX 6DualPlus family provides dual cores running up to 1.2 GHz with 1 MB of L2 cache, enhanced hardware accelerated graphics, prefetch and resolve engine and optimized 64-bit DDR3 or 2-channel, 32-bit LPDDR2 support. Leveraging the same integration of the i.MX 6QuadPlus family, the i.MX 6DualPlus provides a scalable solution for consumer, automotive and industrial applications.
The **i.MX 6Quad family** encompasses a quad-core platform running up to 1.2 GHz with 1 MB of L2 cache, hardware accelerated graphics and 64-bit DDR3 or 2-channel, 32-bit LPDDR2 support. Integrated FlexCAN and MLB busses, PCI Express, and SATA-2 provide excellent connectivity while integration of dual lane MIPI display ports, MIPI camera port and HDMI v1.4 makes it an ideal platform for many applications.

The **i.MX 6Dual family** provides dual cores running up to 1.2 GHz with 1 MB of L2 cache, hardware accelerated graphics and 64-bit DDR3 or 2-channel, 32-bit LPDDR2 support. Leveraging the same integration of the i.MX 6Quad family, the i.MX 6Dual is a scalable solution.

The **i.MX 6DualLite family** features dual cores running up to 1.0 GHz with 512 KB of L2 cache, and 64-bit DDR3 or 2-channel, 32-bit LPDDR2 support. It has integrated FlexCAN and MLB busses, PCI Express, LVDS, and support for MIPI cameras and displays as well as HDMI v1.4.

The **i.MX 6Solo family** provides a single core running up to 1.0 GHz with 512 KB of L2 cache and 2-bit DDR3/LPDDR2 support. Integrated LVDS, MIPI display, MIPI camera port, HDMI v1.4, FlexCAN and MLB enable the i.MX 6Solo family to be a flexible platform.