



## NXP Announces Availability of i.MX RT600 Crossover Family of Microcontrollers

February 24, 2020

NXP Semiconductors today announced market availability of the i.MX RT600 crossover microcontroller (MCU) family, an ideal solution for ultra-low power, secure edge applications including audio, voice and machine learning.

The i.MX RT600 crossover MCU provides optimal balance in power, performance, and memory. Features include:

- Arm® Cortex®-M33 running up to 300 MHz
- Optional Cadence® Tensilica® HiFi 4 audio/voice digital signal processor (DSP) running up to 600 MHz with Quad 32x32 MAC
- Up to 4.5 MB on-chip SRAM with zero wait-state access for critical code and data
- 28nm FD-SOI process optimized for both active and leakage power
- NXP's advanced embedded security technology - EdgeLock™ 400A
- Optimized machine learning support using [Glow neural network compiler](#)\*

### About the i.MX RT Series of Crossover MCUs

The i.MX RT series of crossover MCUs are designed to bridge the gap between high-performance and integration while minimizing costs to meet today's need for high performance embedded processing at the edge. The series delivers advanced microcontrollers (MCUs) with the functionality of applications processors, at low costs, enabling advanced computation and machine learning capabilities in millions of connected edge devices.

### Product Availability and Support

The i.MX RT600 MCU family is available with a suggested resale price starting at \$4.50 (USD) for 10,000-unit quantities.

NXP will accompany the silicon release with an i.MX RT600 evaluation kit at a suggested resale price of \$129 (USD).

i.MX RT600 is fully supported by the NXP MCUXpresso suite of tools and software, including IDE support, system configuration and extensive driver and middleware support. In addition, Cadence's Xplorer IDE for i.MX RT600, DSP function libraries and audio codecs are offered complementary. We've also partnered with Alango Technologies, DSP Concepts and Sensory to provide high performance voice pre-processing and recognition software, plus professional audio libraries and tools. Furthermore, the integrated HiFi 4 DSP will be supported with the NXP [eIQ for Glow machine learning compiler](#), accessible in the next MCUXpresso SDK release planned for Q2 2020.

For more information, please visit [www.nxp.com/iMXRT600](http://www.nxp.com/iMXRT600).

NXP and the NXP logo are trademarks of NXP B.V. ARM and Cortex are trademarks or registered trademarks of ARM Ltd or its subsidiaries in the EU and/or elsewhere. All rights reserved. All other product or service names are the property of their respective owners. All rights reserved. © 2020 NXP B.V.

NXP-Smart City  
NXP-IoT  
NXP-Smart Home