



## **NXP Announces Full Availability of Far-Field Offline Voice Control Solution, based on the i.MX RT106L Crossover Microcontroller**

February 25, 2020

NXP Semiconductors today announced availability of its voice solution, SLN-LOCAL-IOT, a fully integrated development platform for offline voice control. The solution consists of a full hardware module design and associated software required to implement far-field voice control with a customizable wake word and local commands. The solution is based on the i.MX RT106L crossover microcontroller (MCU), which addresses the market demand for embedded voice control in a broad range of smart home, commercial and industrial markets.

The availability of NXP's i.MX RT106L MCU-based voice control solution makes it possible for original equipment manufacturers (OEMs) to now leverage a complete production ready solution to drastically reduce system cost and time to market. The solution delivers private, secure, low latency, hands-free experiences to end users. Additionally, the local voice control solution eliminates the costs and complexities of cloud connectivity and can help protect user's privacy by enabling audio to be processed directly on the device. This is achieved with integrated, machine-learning-based, automatic speech recognition (ASR) technology, delivered in partnership with Sonos, one of the world's leading sound experience brands that recently acquired Snips, a pioneer in embedded voice recognition software for businesses, products and services.

"The collaboration with NXP to launch an industry-leading solution based on Voice Commands by Sonos (Nasdaq: SONO) provides a new level of flexibility and speed for OEMs seeking to quickly develop and bring to market advanced offline voice control solutions that offer end-users completely seamless experiences at home and at work while eliminating any privacy concerns," said Joseph Dureau, VP Voice Experience at Sonos.

### **About the i.MX RT106L crossover microcontroller**

The i.MX RT106L is an edge-ready solution-specific member of the i.MX RT1060 family of crossover MCUs targeting offline embedded local voice control applications. It features NXP's advanced implementation of the Arm® Cortex®-M7 core, which operates at speeds up to 600 MHz. The i.MX RT106L processor is licensed to run NXP's turnkey local voice control software solution, which includes the Voice Commands by Sonos technology, a machine learning far field audio front end, acoustic echo cancellation, barge-in, ambient noise reduction, beamforming, playback processing and many additional features. In addition to delivering the voice control capability, the i.MX RT106L MCU can also be used as the main microcontroller in most IoT product implementations.

### **Pricing and Availability**

The SLN-LOCAL-IOT development kit is available now, priced at an MSRP of \$149 USD. Find additional details about the kit and i.MX RT106L MCU, with ordering information at <http://www.nxp.com/mcu-local>.

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