# NXP's New Automotive Echo Cancellation Noise Reduction Solution Makes Calls Clear

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New ECNR solution comes integrated in NXP chipsets with ITU-T P100 and CarPlay® pre-certification

EINDHOVEN, The Netherlands, March 27, 2018 (GLOBE NEWSWIRE) -- NXP Semiconductors N.V. (NASDAQ:NXPI), has announced a new echo cancellation noise reduction solution (ECNR) that significantly reduces the problem of noisy voice communications and provides carmakers with a consumer pleasing, hands-free calling experience. The cost-effective solution combines innovative ECNR software that can be easily ported onto NXP i.MX processors and NXP's leading car radio tuners and DSPs [1]. The new NXP ECNR solution is also ITU-T P1110 and *CarPlay®* pre-certified**.**
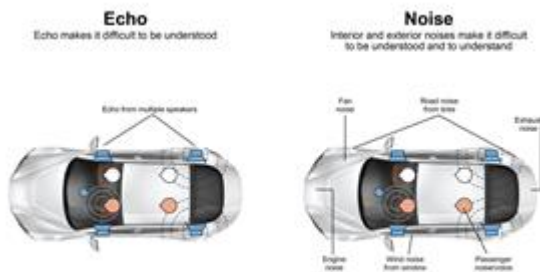
The new NXP ECNR is ITU-T P1110 and CarPlay®
pre-certified.

Echo and noise can make communication on the road difficult. Echo occurs when the speakers within a car transmit a voice signal from an incoming call, which subsequently ricochets through the vehicle and returns to the microphone. This causes the caller to hear their own voice, which is distracting and can result in broken communications. Additionally, road noise from fans, exhaust, tires, windows and passengers can infiltrate calls and render them unintelligible, ultimately disrupting the driving experience and causing frustration.

The new NXP ECNR solution deals with both problems by removing echoes and filtering out unwanted noise from the cockpit to enhance the sound quality of conversations. Since the ECNR solution can be ported to NXP chipsets and is ITU-T P1110 and *CarPlay®* pre-certified, it can reduce carmakers' R&D expenses and speed up the design cycle.

Quote:

"The NXP ECNR software has been deployed worldwide in more than a billion phones [2] and we want to deliver this leading[3] market-proven technology to our automotive customers," said Alexandre Henon, marketing director of audio solutions at NXP. "We adapted our ECNR to automotive requirements and ported the software on two NXP chipset families to provide NXP customers with an easy to implement, high-performance and architecturally flexible solution depending on where they want to run the ECNR function."

- **Hardware Options for NXP ENCR SolutionSAF775x automotive radio-audio one chip**: NXPs SAF775x integrates up to 2 AM/FM tuners, radio processing, an automotive audio hub and an open HiFi2 core for advanced audio algorithms. SAF775x has rich analog and digital interfaces, flexible audio mixer and filter structure, and core audio processing algorithms. The SAF775x family radio-audio one chip is a market-proven solution and has been successfully designed in major automotive OEM platforms.

- **i.MX applications processors for automotive infotainment:** i.MX applications processors offer a feature and performance-scalable multicore platform that includes single, dual and quad-core families based on the Arm® v7-A and Arm v8 architecture based solutions with powerful processing for neural networks, advanced graphics, machine vision, video, audio, voice and safety-critical requirements. www.nxp.com/imx

Availability

The ECNR algorithm is running on the HiFi2 core of SAF775x, ready be activated by a key code.

Notes

[1] Source - Strategy Analytics 2016

[2] Source - Based on internal data

[3] Source – SAR Insight & Consulting

About NXP Semiconductors

NXP Semiconductors N.V. (NASDAQ:NXPI) enables secure connections and infrastructure for a smarter world, advancing solutions that make lives easier, better and safer. As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the secure connected vehicle, end-to-end security & privacy and smart connected solutions markets. Built on more than 60 years of combined experience and expertise, the company has over 30,000 employees in more than 30 countries and posted revenue of $9.26 billion in 2017. Find out more at www.nxp.com

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