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Qualcomm Announces Connected Car Reference Platform to Simplify Integration of Advanced Connectivity Technologies Into New Vehicles

-- Platform Integrates Wireless Technologies Including 3G/4G LTE, GNSS, Wi-Fi®, DSRC, and Bluetooth®; Extensible to Support Cellular V2X and 5G --

SAN DIEGO, June 8, 2016 /PRNewswire/ -- Qualcomm Incorporated (NASDAQ: QCOM) through its subsidiary, Qualcomm Technologies, Inc., today announced the Qualcomm® Connected Car Reference Platform aimed at accelerating the adoption of advanced and complex connectivity into the next-generation of connected cars. As a leader in automotive connectivity with more than 340 million chips shipped so far for products for over 20 automakers, Qualcomm Technologies developed a product designed to maintain pace with an ever-increasing set of automotive use cases facilitated by the latest advances in 4G LTE, Wi-Fi, Bluetooth and vehicle-to-everything (V2X) communications. The platform is also designed to solve for challenges such as wireless coexistence, future-proofing and support for a large number of in-car hardware architectures.

The Connected Car Reference Platform is built upon Qualcomm Technologies' broad automotive product and technology portfolio, including Qualcomm® Snapdragon™ X12 and X5 LTE modems, quad-constellation Global Navigation Satellite System (GNSS) and 2D/3D Dead Reckoning (DR) location solutions, Qualcomm® VIVE™ Wi-Fi® technology, Dedicated Short Range Communications (DSRC) for V2X, Bluetooth®, Bluetooth® Low Energy and broadcast capabilities such as analog and digital tuner support using software-defined radio via Qualcomm® tuneX™ chips. In addition, the platform features in-vehicle networking technologies such as Gigabit (OABR) Ethernet with Automotive Audio Bus (A2B) and Controller Area Network (CAN) interfaces.

Highlights of the Connected Car Reference Platform design include:

- **Scalability:** Using a common framework that scales from a basic telematics control unit (TCU) up to a highly integrated wireless gateway connecting multiple electronic control units (ECUs) within the car supporting critical functions such as over-the-air software upgrades and data collection and analytics.
- **Future-proofing:** Allowing the vehicle's connectivity hardware and software to be upgraded through its life cycle, providing automakers with a migration path from DSRC to hybrid/cellular V2X and from 4G LTE to 5G.
- **Wireless coexistence:** Managing concurrent operation of multiple wireless technologies using the same spectrum frequencies, such as Wi-Fi, Bluetooth and Bluetooth Low Energy.
- **OEM and third-party applications support** Providing a secure framework for the development and execution of custom applications.

The Connected Car Reference Platform allows automakers and their suppliers to explore, prototype and commercialize connectivity designs using modules and solutions offered based on Qualcomm Technologies' roadmap.

"With the Connected Car Reference Platform, Qualcomm Technologies has developed a platform for automakers, module OEM customers, and developers that emphasizes scalability, modularity and security for integrating and managing multiple cutting-edge wireless technologies inside vehicles," said Nakul Duggal, vice president, product management, Qualcomm Technologies, Inc. "We are pleased to introduce this platform to help enable best-in-class advanced connectivity solutions and services in upcoming vehicle designs."

The Qualcomm Connected Car Reference Platform is expected to be available by the end of 2016. Qualcomm Technologies is showcasing the Connected Car Reference Platform, along with application demos from collaborating companies including OTA updates by Movimento, V2X communications by Savari, Inc., and vehicle data management and analytics by Hortonworks, at the TU-Automotive Detroit conference on June 8-9, booth #C69.

About Qualcomm Incorporated

Qualcomm Incorporated (NASDAQ: QCOM) is a world leader in 3G, 4G and next-generation wireless technologies. Qualcomm Incorporated includes Qualcomm's licensing business, QTL, and the vast majority of its patent portfolio. Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, substantially all of Qualcomm's engineering, research and development functions, and substantially all of its products and services businesses, including its semiconductor business, QCT. For more than 30 years, Qualcomm ideas and inventions have driven the evolution of digital communications, linking people everywhere more closely to information, entertainment and each other. For more information, visit Qualcomm's [website](#), [OnQ blog](#), [Twitter](#) and [Facebook](#) pages.

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