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Qualcomm Showcases 5G Leadership by Announcing its First 5G Modem Solution

-- Qualcomm Snapdragon X50 5G Modem Supports Early 5G Deployments and Field Trials, Helping OEMs to Develop Devices For Early 5G Networks --

HONG KONG, Oct. 18, 2016 /PRNewswire/ -- Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated (NASDAQ: QCOM), announced today the Qualcomm Snapdragon X50 5G modem, making Qualcomm the first company to announce a commercial 5G modem chipset solution. It is designed to support original equipment manufacturers (OEMs) that are building the next generation of cellular devices, as well as aid operators with early 5G trials and deployments.

The Snapdragon X50 5G modem will initially support operation in millimeter wave (mmWave) spectrum in the 28GHz band. It will employ Multiple-Input Multiple-Output (MIMO) antenna technology with adaptive beamforming and beam tracking techniques, which facilitates robust and sustained mobile broadband communications in non-line-of-sight (NLOS) environments. With 800 MHz bandwidth support, the Snapdragon X50 5G modem is designed to support peak download speeds of up to 5 gigabits per second.

Designed to be used for multi-mode 4G/5G mobile broadband, as well as fixed wireless broadband devices, the Snapdragon X50 5G modem can be paired with a Qualcomm® Snapdragon™ processor with an integrated Gigabit LTE modem and interwork cohesively via dual-connectivity. Gigabit LTE will become an essential pillar for the 5G mobile experience, as it can provide a wide coverage layer for nascent 5G networks.

"The Snapdragon X50 5G modem heralds the arrival of 5G as operators and OEMs reach the cellular network and device testing phase," said Cristiano Amon, executive vice president, Qualcomm Technologies, Inc., and president, QCT. "Utilizing our long history of LTE and Wi-Fi leadership, we are thrilled to deliver a product that will help play a critical role in bringing 5G devices and networks to reality. This shows that we're not just talking about 5G, we're truly committed to it."

With the Snapdragon X50 5G modem, operators deploying mmWave 5G networks can now work closely with QTI to conduct lab tests, field trials and early network deployments. Additionally, OEMs utilizing the Snapdragon X50 5G modem will have an opportunity to gain an early start in optimizing their devices for the unique challenges associated with integrating mmWave. Incorporating the Snapdragon X50 5G modem in devices on a live 5G network can yield valuable insight into the challenges of integrating emerging technologies in form-factor accurate devices. QTI will utilize these insights to help accelerate the standardization and commercialization of 5G New Radio (NR), the global standard for 5G.

For consumers, enhanced mobile broadband supported by 5G will bring unprecedented immediacy between mobile users and cloud services, enhancing media consumption, improving media generation and offering even faster access to rich information. Additionally, the proliferation of 5G technology can make it more cost-effective and easier for multi-gigabit Internet service to reach more homes and businesses.

The Snapdragon X50 5G modem builds on QTI's long history of delivering industry-leading orthogonal frequency-division multiplexing (OFDM) chips and technology, previously demonstrated by the company's industry leadership in several generations of LTE technology and products, as well as mmWave and massive MIMO architectures in 802.11ad products.

The Snapdragon X50 5G platform will include the modem, the SDR051 mmWave transceivers, and the supporting PMX50 power management chip. Sampling for the Snapdragon X50 5G modem is expected to begin in the second half of 2017. The first commercial products that will integrate the Snapdragon X50 5G modem are expected to be available during the first half of 2018.

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.

Except for the historical information contained herein, this news release contains forward-looking statements that are subject to risks and uncertainties, including Qualcomm Technologies' ability to successfully design and have manufactured significant quantities of the Qualcomm® Snapdragon™ X50 platform on a timely and profitable basis, the extent and speed to which the Snapdragon X50 platform is adopted and commercially deployed, the extent and speed by which 5G is adopted and rolled-out in various regions and networks, the extent of the demand for 5G high-speed connectivity and development and commercialization of 5G devices, the timing of standardization and commercialization of 5G New Radio, the extent Gigabit LTE will become an essential pillar for the 5G mobile experience, the speed and extent of proliferation of 5G technology and its effect on ease and cost-effectiveness of deployment of multi-gigabit Internet, as well as the other risks detailed from time to time in the Company's SEC reports, including the report on Form 10-K for the year ended September 25, 2016, and most recent Form 10-Q. The Company undertakes no obligation to update, or continue to provide information with respect to, any forward-looking statement or risk factor, whether as a result of new information, future events or otherwise.

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