



UScellular, Qualcomm, Ericsson, and Inseego Address Digital Divide with Multi-Gigabit Extended-Range 5G Milestone Over mmWave

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Successful Milestone Addresses “The Last Mile” Connectivity Challenge and Enhances Consumer Broadband Experiences as Data Demand Grows

SAN DIEGO--(BUSINESS WIRE)--May 6, 2021-- **What’s New:** UScellular, Qualcomm Technologies, Inc., Ericsson and Inseego today announced the companies have successfully achieved a 5G extended-range milestone over millimeter Wave (mmWave) on a commercial network. This milestone was accomplished at a distance of 7 km, the farthest 5G mmWave Fixed Wireless Access (FWA) connection in the United States, with sustained average downlink speeds of ~1 Gbps, sustained average uplink speeds of ~55 Mbps and instantaneous peak downlink speeds recorded at greater than 2 Gbps^[1]. Additionally, at a distance of 1.75 km with no line of sight, the companies achieved sustained average downlink speeds of ~730 Mbps and sustained average uplink speeds of ~38 Mbps. These results were achieved in Janesville, Wis., on UScellular’s commercial network by applying Ericsson’s extended-range functionality to Ericsson commercial hardware Antenna Integrated Radio (AIR) 5322 advanced antenna system, along with an Inseego Wavemaker™ 5G outdoor CPE FW2010 powered by the Qualcomm® 5G Fixed Wireless Access Platform gen 1 featuring Qualcomm® Snapdragon™ X55 5G Modem-RF System and a Qualcomm® QTM527 mmWave antenna module. The achievement demonstrates the impressive range and connectivity speeds 5G mmWave can provide to homes and businesses everywhere.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20210506005400/en/>



Why It’s Important:

With its massive capacity, in particular achieving gigabit speeds over this long range, 5G mmWave is a robust and crucial solution to meet the increasing traffic demand and expand broadband services to help bridge the digital divide throughout rural, suburban, and urban communities. 5G mmWave will enable new business opportunities in FWA by providing a cost-effective way for communication service providers to deliver high internet speeds. 5G FWA will address the “last mile” connectivity challenges by allowing operators and OEMs to deploy 5G connectivity to homes and institutions such as schools, libraries, hospitals, and other health care facilities. FWA provides the bandwidth required to support high-definition video streaming that can improve remote education and healthcare experiences in suburban and rural environments.

“We believe that every household and business deserve access to reliable

Unprecedented range and sustained speeds - Recent 5G mmWave field tests on the UScellular network demonstrated sustained average downlink speeds of ~1 Gbps and peak speeds over 2 Gbps at a distance of 7 km — the farthest 5G mmWave Fixed Wireless Access (FWA) connection in the U.S. This milestone was achieved using Ericsson infrastructure and an Inseego Wavemaker fixed wireless outdoor gateway, powered by the Qualcomm 5G Fixed Wireless Access Platform gen 1. (Photo: Business Wire)

Internet access no matter where they are located, and the results we achieved in this latest mmWave test further confirm that wireless technology is key to providing high-speed broadband service in both urban and rural areas,” said Mike Irizarry, executive vice president and chief technology officer, UScellular. “By collaborating with companies like Ericsson, Qualcomm Technologies and Inseego, we will continue to drive innovation with extended-range technology to ensure that wireless customers across rural America have an exceptional wireless experience designed for their communities.”

“We are pleased of our collaboration with UScellular, Ericsson and Inseego as this milestone continues to highlight the growing momentum we’re seeing across the industry to bridge the digital divide. Our innovations in 5G FWA will help operators and OEMs offer flexible and cost effective, low-latency, extended range, multi-gigabit 5G broadband to their customers,” said Manish Tripathi, vice president of engineering, Qualcomm Technologies, Inc. “The Qualcomm 5G Fixed Wireless Access Platform gen 1 was designed to deliver the first fully integrated extended-range mmWave solution to deploy 5G connectivity to homes, small businesses, schools, hospitals and town halls.”

“We have long been pushing the boundaries of 5G technology, and this collaboration with UScellular, Inseego, and Qualcomm Technologies continues to demonstrate our successful track record in extending coverage with our industry-leading 5G mmWave hardware and software solutions optimized for FWA,” said Per Narvinger, head of product area networks, Ericsson. “Today, technology plays a critical role in our lives, and we’re thrilled to provide our advanced technology and networking expertise to help address the last mile of connectivity across the U.S.”

“This is an exciting, high-performance product within our growing portfolio of 5G fixed wireless access solutions,” said Ashish Sharma, president of IoT and mobile solutions, Inseego. “We’re delivering exceptionally high throughput at a very long distance with millimeter wave technology. In addition to bringing 5G to enterprise and home broadband customers almost anywhere, we see a great market with the FW2010 for infrastructure backhaul applications. This is truly a game-changer for the FWA market.”

About UScellular

UScellular is the fourth-largest full-service wireless carrier in the United States, providing national network coverage and industry-leading innovations designed to elevate the customer experience. The Chicago-based carrier is building a stronger network with the latest [5G technology](#) and offers a wide range of communication services that enhance consumers' lives, increase the competitiveness of local businesses and improve the efficiency of government operations. To learn more about UScellular, visit one of its retail stores or www.uscellular.com. To get the latest news, promos and videos, connect with UScellular on [Facebook.com/uscellular](https://www.facebook.com/uscellular), [Twitter.com/uscellular](https://twitter.com/uscellular) and [YouTube.com/uscellularcorp](https://www.youtube.com/uscellularcorp).

About Qualcomm

Qualcomm is the world's leading wireless technology innovator and the driving force behind the development, launch, and expansion of 5G. When we connected the phone to the internet, the mobile revolution was born. Today, our foundational technologies enable the mobile ecosystem and are found in every 3G, 4G and 5G smartphone. We bring the benefits of mobile to new industries, including automotive, the internet of things, and computing, and are leading the way to a world where everything and everyone can communicate and interact seamlessly.

Qualcomm Incorporated includes our licensing business, QTL, and the vast majority of our patent portfolio. Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, substantially all of our engineering, research and development functions, and substantially all of our products and services businesses, including our QCT semiconductor business.

About Ericsson

Ericsson enables communications service providers to capture the full value of connectivity. The company's portfolio spans Networks, Digital Services, Managed Services, and Emerging Business and is designed to help our customers go digital, increase efficiency and find new revenue streams. Ericsson's investments in innovation have delivered the benefits of telephony and mobile broadband to billions of people around the world. The Ericsson stock is listed on Nasdaq Stockholm and on Nasdaq New York. www.ericsson.com.

About Inseego Corp.

Inseego Corp. (Nasdaq: INSG) is an industry leader in smart device-to-cloud solutions that extend the 5G network edge, enabling broader 5G coverage, multi-gigabit data speeds, low latency and strong security to deliver highly reliable internet access. Our innovative mobile broadband, fixed wireless access (FWA) solutions, and software platform incorporate the most advanced technologies (including 5G, 4G LTE, Wi-Fi 6 and others) into a wide range of products that provide robust connectivity indoors, outdoors and in the harshest industrial environments. Designed and developed in the USA, Inseego products and SaaS solutions build on the company's patented technologies to provide the highest quality wireless connectivity for service providers, enterprises, and government entities worldwide. www.inseego.com #Putting5GtoWork

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Qualcomm and Snapdragon are trademarks or registered trademarks of Qualcomm Incorporated.

Qualcomm Snapdragon, Qualcomm QTM527 mmWave antenna module, and Qualcomm 5G Fixed Wireless Access Platform are products of Qualcomm Technologies, Inc. and/or its subsidiaries.

^[1] These are instantaneous peak download speeds measured over a scheduled downlink transmission recorded on a commercial network. Real-world download speeds for end users are subject to network availability and coverage.

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