



Raytheon Technologies and GLOBALFOUNDRIES Partner to Accelerate 5G Wireless Connectivity

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Strategic collaboration and licensing agreement to develop new Gallium Nitride technology will enable future wireless networks

Waltham, Mass. and Burlington, Vt., May 19, 2021 – Raytheon Technologies (NYSE: RTX), a leading aerospace and defense technology company, and GLOBALFOUNDRIES® (GF®), the global leader in feature-rich semiconductor manufacturing, will collaborate to develop and commercialize a new gallium nitride on silicon (GaN-on-Si) semiconductor that will enable game-changing radio frequency performance for 5G and 6G mobile and wireless infrastructure applications.

Under the agreement, Raytheon Technologies will license its proprietary gallium nitride on silicon technology and technical expertise to GF, which will develop the new semiconductor at its Fab 9 facility in Burlington, Vermont. Gallium nitride is a unique material used to build high-performance semiconductors that can handle significant heat and power levels. This makes it ideal to handle 5G and 6G wireless signals, which require higher performance levels than legacy wireless systems.

“Raytheon Technologies was one of the pioneers advancing RF gallium arsenide technology which has been broadly used in mobile and wireless markets, and we have similarly been at the forefront of advancing gallium nitride technology for use in advanced military systems,” said Mark Russell, Raytheon Technologies’ chief technology officer. “Our agreement with GLOBALFOUNDRIES not only demonstrates our common goal to make high performance communications technologies available at an affordable cost to our customers, it continues to prove how investments in advanced defense technologies can improve lives, as well as defend them.”

“I am proud that GLOBALFOUNDRIES’ fab in Essex is leading the way in domestic production of this important 5G-enabling technology and beyond. This is a win for Vermont and a win for the United States,” said Senator Patrick Leahy, Chairman of the Senate Appropriations Committee. “This collaboration between a world-class manufacturer, GLOBALFOUNDRIES, and Raytheon Technologies, a leader in technological innovation, is good news for the nation’s semiconductor supply chain and competitiveness. The technology that will be produced by Vermonters will be a revolution in our lives.”

“GLOBALFOUNDRIES’ innovations have helped drive the evolution of four generations of wireless communications that connect over 4 billion people. Our collaboration with Raytheon Technologies is an important step to ensuring the development and manufacturing capability of solutions for critical future 5G applications,” said GF CEO Tom Caulfield. “This partnership will enable everything from AI-supported phones and driverless cars to the smart grid, as well as governments’ access to data and networks which are essential to national security.”

Combined with GF’s manufacturing excellence and differentiated services in RF, testing, and packaging, the new GaN offering will increase RF performance while maintaining production and operational costs, enabling customers to achieve new levels of power and power-added efficiency to meet evolving 5G and 6G RF millimeter-wave operating frequency standards.

This collaboration with Raytheon Technologies is the latest of several strategic partnerships for GF and is further evidence of the company’s commitment to redefine the leading-edge by delivering differentiated solutions, while the rest of the industry continues to pursue traditional and increasingly difficult technology scaling.

As a Trusted semiconductor manufacturing facility since 2005, GF employs nearly 2,000 people at Fab 9, and more than 7,000 people across the U.S. Over the past 10 years the company has invested \$15 billion in U.S. semiconductor development and is doubling its planned investment in 2021 to expand global capacity and support growing demand from the U.S. government and industry customers for secure processing and connectivity applications.

About GF

GF is the world’s leading semiconductor manufacturer and the only one with a truly global footprint. GF delivers feature-rich solutions that enable its customers to develop pervasive chips for high-growth market segments. GF provides a broad range of platforms and features with a unique mix of design, development and fabrication services. With an at-scale manufacturing footprint spanning the U.S., Europe and Asia, GF has the flexibility and agility to meet the dynamic needs of customers across the globe. GF is owned by Mubadala Investment Company. For more information, visit www.globalfoundries.com.

About Raytheon Technologies

Raytheon Technologies Corporation is an aerospace and defense company that provides advanced systems and services for commercial, military and government customers worldwide. With four industry-leading businesses — Collins Aerospace, Pratt & Whitney, Raytheon Intelligence & Space and Raytheon Missiles & Defense — the company delivers solutions that

push the boundaries in avionics, cybersecurity, directed energy, electric propulsion, hypersonics, and quantum physics. The company, formed in 2020 through the combination of Raytheon Company and the United Technologies Corporation aerospace businesses, is headquartered in Waltham, Massachusetts.

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