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## STMicroelectronics Introduces High-Performance GaN Family for Automotive Applications

- *New product family to combine Power GaN with intelligence for smaller and more highly integrated system solutions for the EV era*
- *ST<sup>2</sup>GaN offering to include solutions for On-Board Chargers, LiDAR for autonomous driving, bidirectional DC-DC converters, Class-D amplifiers, and power-conversion systems*

**Geneva, May 6, 2021 – STMicroelectronics (NYSE: STM)**, a global semiconductor leader serving customers across the spectrum of electronics applications, has announced a new family of ST Intelligent and Integrated Gallium Nitride (GaN) solutions, STi<sup>2</sup>GaN. STi<sup>2</sup>GaN is an innovative and unique offering combining power and intelligence in compact, high-performance solutions required by the automotive industry as it shifts to electrified platforms.

Building on ST's leadership and strong automotive experience, innovations in Smart Power technology, wide bandgap semiconductor materials and packaging expertise, the STi<sup>2</sup>GaN family combines a monolithic power stage along with drivers and protections in GaN technology as well as System-in-Package (SiP) solutions for application-specific ICs with additional processing and control circuitry. The STi<sup>2</sup>GaN solutions use ST's novel bond-wire-free packaging technology to provide high robustness, reliability, and performance.

*“ST<sup>2</sup>GaN continues ST's long success story in compound materials and Smart Power product innovation, targeting mainly automotive applications and the needs of high-density, high-reliability and high-power. Initial offering of ST<sup>2</sup>GaN solutions suit On-Board Chargers, LiDAR for autonomous driving, bidirectional DC-DC converters, Class-D amplifiers and power conversion systems,”* said Alfio Russo, Group VP and GM Low Voltage and STi<sup>2</sup>GaN Solutions Macro Division, STMicroelectronics. *“The new product family aims to leverage the high-power density and efficiency of GaN to offer an industry-unique range of devices in 100V and 650V clusters that ensure scalability, compactness, and outstanding performance.”*

ST is already engaged with key partners. For additional information please contact your local ST sales or visit [www.st.com/sti2gan](http://www.st.com/sti2gan).

You can also learn more by viewing the presentation “ST<sup>2</sup>GaN – A New Wave of Smart Power Electronics” held today at the e-Mobility Forum at [PCIM Europe](#).

## **About STMicroelectronics**

At ST, we are 46,000 creators and makers of semiconductor technologies mastering the semiconductor supply chain with state-of-the-art manufacturing facilities. An independent device manufacturer, we work with more than 100,000 customers and thousands of partners to design and build products, solutions, and ecosystems that address their challenges and opportunities, and the need to support a more sustainable world. Our technologies enable smarter mobility, more efficient power and energy management, and the wide-scale deployment of the Internet of Things and 5G technology. Further information can be found at [www.st.com](http://www.st.com).

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