



## Sanan Semiconductor Partners with Luminus Devices to Bring SiC and GaN Power Semiconductor Products to the Americas

SUNNYVALE, Calif., January 8, 2024, Sanan Semiconductor, an emerging leader in wide bandgap power semiconductor materials, components, and foundry services has announced [Luminus Devices](#) as their exclusive sales channel in the Americas. This was a natural choice as both companies are subsidiaries of Sanan Optoelectronics, the compound semiconductor innovator and the world's largest LED chip manufacturer. The timing is ideal for this partnership as customers in a wide range of power-related industries have suffered in recent years from long lead times, especially for Silicon Carbide (SiC) wafers, Schottky diodes, and MOSFETs. Sanan, having recently completed construction of a US\$2B "Megafab" in Changsha, China, is now equipped to provide customers with products and foundry services with aggressive lead times, as low as 8 weeks for most products. The capacity of this Megafab also positions Sanan as the largest vertically integrated SiC manufacturer in China, and the 3<sup>rd</sup> largest in the world. Sanan plans to focus on foundry services to support already established semiconductor companies who need a secure supply of SiC substrates, epi wafers or bare die. In parallel, Sanan offers turnkey solutions of SiC Schottky diodes and SiC MOSFETs to support emerging customers in renewable energy and diverse applications such as industrial power supplies, wind power, energy storage, motor driving, data centers, HVAC, electric vehicle (EV) charging, photovoltaics, and other high power scenarios where the advantages of SiC provide essential robustness, value and efficiency.

Tony Chiang, CEO of Hunan Sanan Semiconductor, comments, "We are excited to leverage the well established Luminus sales team in the Americas, including their regional manufacturers reps and distributors to deliver our wide bandgap technology and products to customers who have been suffering from limited allocation and long lead times in recent years."

The Sanan Semiconductor SiC Megafab takes vertical integration to a whole new level. It starts with the production of raw powders and turns those into SiC boules, which are sliced into wafers, on which epitaxy is grown, then chips are produced and finally at the end of the line is packaging and test. To give you a sense of the massive scale of this factory campus, a window tour of the Megafab is an amazing 1.6 kilometer-long journey. Sanan is already breaking ground on a mirror image of the Megafab next door which will more than double the capacity by early 2025. All of this is separate from the \$3.2B SiC joint venture Sanan announced with ST Microelectronics earlier this year in Chongqing, China.

Mark Pugh, CEO of Luminus Devices, adds, "Since we became part of the Sanan family 10 years ago, our worldwide customers have benefitted from the massive scale and advanced technology of our parent company. Now customers in the Americas will enjoy local service, rapid delivery, and technical support from Luminus as we expand into the high growth SiC and GaN power semiconductor materials, foundry, and components markets."

For more information about Sanan Semiconductor wide bandgap power semiconductor products please visit [www.luminus.com](http://www.luminus.com) or contact [sanan-semi@luminus.com](mailto:sanan-semi@luminus.com).

### **About Luminus Devices**

Luminus Devices develops and markets wide bandgap solutions to help customers migrate from conventional technologies to long-life & energy-efficient compound semiconductors. Combining technology originated from MIT with innovation from Silicon Valley, Luminus offers a comprehensive range of photonics solutions for global lighting markets, high-output specialty solutions for performance-driven markets including

consumer displays, entertainment lighting and medical applications as well as SiC and GaN power semiconductor materials and components to help customers create robust, efficient high power products.

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**About Sanan Optoelectronics**

Sanan is engaged in the research, development and manufacturing of a wide range of compound semiconductor products, including SiC, GaN, full range visible LEDs, Optical Communications, RF, Filters, infrared, UV products. It currently runs the largest compound semiconductor foundry capacity in China.

Further information can be found at [www.sanan-e.com](http://www.sanan-e.com) and [www.sanan-semiconductor.com](http://www.sanan-semiconductor.com)