



## Soitec and GlobalFoundries collaborate in the production of High-Performance RF-SOI Semiconductors

### GF's advanced 9SW platform to use Soitec's latest generation of 300mm RF-SOI wafers

**Bernin (France), December 4<sup>th</sup>, 2024** — Soitec, a leader in the design and manufacture of innovative semiconductor materials, announced today its commitment to deliver 300mm RF-SOI substrates to GlobalFoundries (GF) for the production of GF's leading RF-SOI technology platforms, including the company's most advanced RF solution, 9SW.

Building on the longstanding relationship between the two companies, this commitment will ensure the supply of advanced RF-SOI engineered substrates required for 5G, 5G-Advanced, Wi-Fi, and other smart mobile device Radio Frequency Front-End (RFFE) modules.

To support advanced connectivity, GF's 9SW RF-SOI platform with its superior switching, low-noise amplifiers (LNA) and logic processing capabilities offers significant advantages and value for premium smartphones by delivering enhanced RF performance, improved power efficiency and scalability. These features are critical for ensuring a superior user experience in high-end devices.

The new Soitec RF-SOI 300mm substrate offers significant advancements: reduced off-capacitance due to optimized silicon thickness, enhanced and sustained power efficiency enabled by an optimized oxide layer, and superior RF performance made possible by Soitec's cutting-edge RFeSi™ product family.

Manufactured using Soitec's latest-generation 300mm RF-SOI wafers, GF's 9SW platform delivers significant reduction in active and standby power consumption and enables 10% smaller products than previous platforms, for an efficiency enhancement of more than 20% through lower on-resistance and off-capacitance figures of merit.

*“GF continues to deliver highly differentiated, industry-leading technologies required for essential 5G, IoT, Infrastructure and Automotive applications. This collaboration with Soitec shows our commitment to ensure a continuous supply of high-performance RF-SOI solutions that meet our customers’ fast evolving needs”* said Faisal Saleem, Senior Vice President of End Markets at GlobalFoundries.

*“Soitec has established the world's largest production capacity to meet growing demand for advanced RF-SOI substrates supporting 5G and WiFi technologies in smartphones, as well as future AR-VR and IoT devices. We are delighted to extend our longstanding relationship with GlobalFoundries in developing the next generation of 300mm RF-SOI technologies. The transition from 5G to 5G-Advanced, and eventually 6G, requires ever-higher performance and energy efficiency, as well as increasing compactness for next-generation devices,”* said Jean-Marc Le Meil, Soitec Executive Vice President for Mobile Communications.

#### **About Soitec**

Soitec (Euronext - Tech Leaders), a world leader in innovative semiconductor materials, has been developing cutting-edge products delivering both technological performance and energy efficiency for over 30 years. From its global headquarters in France, Soitec is expanding internationally with its unique solutions, and generated sales of 1 billion Euros in fiscal year 2023-2024. Soitec occupies a key position in the semiconductor value chain, serving three main strategic markets: Mobile Communications, Automotive and Industrial, and Edge and Cloud AI. The company relies on the talent and diversity of its 2,300 employees, representing 50 different nationalities, working at its sites in Europe, the United States and Asia. Soitec has registered over 4,000 patents.

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#### **About GF**

GlobalFoundries (GF) is a leading manufacturer of essential semiconductors the world relies on to live, work and connect. We innovate and partner with customers to deliver more power-efficient, high-performance products for the automotive, smart mobile devices, internet of things, communications infrastructure and other high-growth markets. With our global manufacturing footprint spanning the U.S., Europe, and Asia, GF is a trusted and reliable source for customers around the world. Every day, our talented and diverse team delivers results with an unyielding focus on security, longevity, and sustainability. For more information, visit [www.gf.com](http://www.gf.com).