SiTime Symphonic Mobile Clock Generator Enables Advanced Wireless Connectivity

SiT30100 Delivers Superior Thermal Resilience in a Tiny Footprint; Unlocks $2 Billion SAM Over the Next Five Years

SANTA CLARA, Calif.--(BUSINESS WIRE)--May 6, 2025-- SiTime Corporation (NASDAQ: SITM), the Precision Timing company, today announced Symphonic ™, its first mobile clock generator with an integrated MEMS resonator (SiT30100). Symphonic provides accurate and resilient clock signals for 5G and GNSS chipsets and enables efficient power consumption in mobile and IoT devices such as smartphones, tablets, laptops, and asset trackers. This product unlocks a cumulative $2 billion served addressable market (SAM) in the next five years.

This press release features multimedia. View the full release here: https://www.businesswire.com/news/home/20250506093502/en/

Symphonic SiT30100 delivers superior thermal resilience in a tiny footprint; unlocks $2 billion SAM over the next five years.

"Every generation of mobile devices becomes smarter, delivering greater functionality, personalization and automation," said Rajesh Vashist, CEO and chairman of SiTime. "Timing devices must withstand thermal and mechanical stressors as processing and connectivity speeds increase. Our newest mobile clock generator delivers the precision timing required for advanced connectivity of next-generation mobile devices."

The Symphonic clock generator has an integrated MEMS resonator and provides the functionality of up to four discrete timing devices. This approach simplifies system design, reducing space on the board. An integrated temperature sensor delivers accurate information that is used by compensation algorithms to provide superior stability. This enables better GPS accuracy and faster lock time at the system level, delivering a more stable performance under harsh environmental conditions.

"Ensuring that wireless and GPS protocol-dependent systems and services run reliably is essential for meeting the requirements of increasingly sophisticated wireless devices and use cases," said Dave Altavilla, president and principal analyst at HotTech Vision & Analysis. "SiTime's new clock generator is an example of how precision timing technology is a critical enabler of AI-first mobile experiences."

Symphonic key features (SiTime30100):

- 4-output clock generator providing 76.8 MHz, 38.4 MHz or 19.2 MHz from any output for baseband, RF and GNSS applications.
- Integrated MEMS resonator, which eliminates an external resonator, and provides a smaller, single-chip solution which is only 2.22 mm^2 in area.
- Integrated high-precision temperature-to-digital converter (TDC) with single-wire Universal Asynchronous Receiver/Transmitter (UART) interface for system-level temperature compensation to achieve frequency stability as low as ±0.5ppm.
- Superior performance and dynamic stability under airflow and thermal shock.
- Multiple Output Enable pins to turn on and off clock outputs for system power optimization and electromagnetic interference (EMI) reduction.

- -30°C to +90°C operating temperature range (contact SiTime for wider temperature ranges).

Availability

The Symphonic mobile clock generator is available now.

Additional Resources

- Blog
- Product page

About SiTime

SiTime Corporation is the Precision Timing company. Our semiconductor MEMS programmable solutions offer a rich feature set that enables customers to differentiate their products with higher performance, smaller size, lower power and better reliability. With more than 3 billion devices shipped, SiTime is changing the timing industry. For more information, visit www.sitime.com.

View source version on businesswire.com: https://www.businesswire.com/news/home/20250506093502/en/

Simone Souza
SiTime
ssouza@sitime.com
(650) 888-9637

Donna St. Jean Conti
Green Flash Media
donna@gflashmedia.com
(949) 290-0622

Source: SiTime Corporation