



SiTime Enhances AI Data Center Performance and Utilization with TimeFabric Software Suite

End-to-End Hardware and Software Solution Delivers the Most Accurate and Reliable Timing for Data Centers, Networking and Communication Systems

SANTA CLARA, Calif.--(BUSINESS WIRE)--Jun. 30, 2025-- [SiTime Corporation](#) (NASDAQ: SITM), the Precision Timing company, today announced its [TimeFabric™ software suite](#). TimeFabric, combined with SiTime's oscillators and clocks, delivers up to 9X more accurate time synchronization than quartz-based solutions, enabling higher system performance and utilization in AI data centers. The TimeFabric software suite consists of two modules: IEEE 1588 standards-compliant synchronization software, as well as proprietary technology to extend critical holdover performance to 24 hours.

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TimeFabric, combined with SiTime's oscillators and clocks, delivers up to 9X more accurate time synchronization than quartz-based solutions, enabling higher system performance and utilization in AI data centers – under harsh environmental conditions.

“At SiTime, we help our customers resolve their complex timing problems for the world's most advanced technologies,” said Rajesh Vashist, chairman and CEO of

SiTime. “As the only semiconductor company exclusively focused on Precision Timing, we deliver a comprehensive portfolio of solutions—including our innovative oscillators, clocks, and now, TimeFabric software. By partnering with SiTime, customers can accelerate their time to market, enhance product reliability, and extend product lifecycles. With the introduction of TimeFabric, SiTime further strengthens its role as an indispensable partner, delivering enduring value to our customers and driving our leadership in the timing industry.”

In addition to AI data center applications such as smart network interface cards (SmartNIC), switches, routers and accelerators, TimeFabric can also be used in 5G infrastructure, including remote radio units and base stations, fixed wireless access (FWA) equipment and core network equipment.

The TimeFabric software suite has two software modules:

- IEEE 1588 Precision Time Protocol (PTP) Standards-compliant Servo and Stack
 - SiTime's proprietary servo and software stack for IEEE 1588 precision time protocol (PTP) with sub-nanosecond synchronization accuracy delivers tighter control and greater timing stability over generic IEEE 1588 solutions, even in the most demanding network systems. Network architects gain flexibility in network traffic scheduling and load balancing, which will result in higher utilization.
- Holdover Extension Software
 - TimeFabric's proprietary holdover extension software can be used to enhance the functionality of SiTime's precision devices with in-field software upgrades. The holdover extension software delivers up to 24 hours of holdover, essential to mobile and network infrastructure reliability – a stringent requirement for critical infrastructure. This ensures full operation in the event of GNSS outages or network clock failures.

Additional features include:

- IEEE 1588-2019 compliant - meets ITU-T G.8273.2 Class D:
 - Full timeTransmitter and timeReceiver capability.
 - Hardware timestamping support.
 - Device drivers for SiTime network synchronizers.
 - IEEE 1588 management support.
- 2X longer holdover:
 - Up to 24 hours holdover with [SiT5811](#), [SiT5812](#) or [SiT7101](#).

Availability

TimeFabric is now available for SiTime OCXOs, TCXOs and network synchronizers.

Resources

- [Blog](#)
- [Product page](#)
- [Demo](#)

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 3.5 billion devices shipped, SiTime is changing the timing industry. For more information, visit www.sitime.com.

Forward-Looking Statements

This press release may contain forward-looking statements regarding future events within the meaning of the federal securities laws. These forward-looking statements are intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. Readers are cautioned that these forward-looking statements involve risks and uncertainties that could cause our actual results and the timing of events to differ materially from those anticipated in such forward-looking statements, including, but not limited to, any statement that may predict, forecast, indicate, or imply future events results, or achievements; and other risks and uncertainties described more fully in our documents filed with or furnished to the Securities and Exchange Commission. More information about these and other risks that may impact our business is set forth in our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, and other documents filed by us from time to time with the Securities and Exchange Commission. All forward-looking statements in this press release are based on information available to us as of the date hereof and qualified in their entirety by this cautionary statement, and we assume no obligation to revise or update these forward-looking statements.

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