SiTime Precision Timing Solution Provides Clocking for New AMD Alveo X3 Series Platform

Cascade ClkSoC Helps Enable Platform to Deliver Low Latency Trade Execution and Risk Management

SANTA CLARA, Calif.--(BUSINESS WIRE)--Dec. 6, 2022-- SiTime Corporation (Nasdaq: SITM), the precision timing company, announced today that AMD is using SiTime MEMS precision timing solutions for its new Alveo™ X3 series, the first AMD network cards designed with screened FPGAs and optimized specifically for low latency electronic trading. Designed for the fintech industry, AMD's first network interface card (NIC) platform is optimized for electronic trading systems that require lower latency and security in every transaction. The SiTime SiT95145 Cascade™ clock system on a chip (ClkSoC™) is a unique single chip solution that generates all the clocks in the Alveo X3 NIC and delivers superior performance required by high-speed networks, and data centers that are the backbone of stock exchanges.

"Electronic trading continues to evolve and the race to the lowest latency trade execution is critical to how financial firms operate," said Hamid Salehi, director of product marketing, Fintech and Blockchain Technologies, AMD. "The Alveo X3 series brings low latency and adaptive computing onto a single platform to give our customers a competitive advantage for today and tomorrow. In this system, we used the SiTime SiT95145 Cascade clock system on a chip to supply all critical clocks. This precision timing device replaced multiple oscillators and resonators, simplified our clock tree design, and helped us save verification time, accelerating our time to market."

Leading financial trading firms, quants, hedge fund managers and exchanges demand near instantaneous, ultra-low-latency trade execution and risk management to maintain competitive advantage and outperform the market in today's volatile environment. High-performance NICs built with precision timing components are critical to the speed and accuracy of automated trading systems designed to complete transactions within milliseconds.

"Higher speeds and lower latency are the two major requirements of new communications networks as they enable new services," said Piyush Sevalia, executive vice president of marketing at SiTime. "Precision timing plays a crucial role in fulfilling these requirements by delivering higher performance and robustness for modern communications deployment. SiTime has a complete portfolio of oscillators and clocks that offer compelling benefits, whether it be in performance, robustness, reliability, integration, size or power. These benefits enable unique capabilities, simplify customer's designs, save verification time, and accelerate our customers' time to revenue."

AMD's FPGA-based platform delivers low-latency performance benefits through turnkey networking IP, state-of-the-art connectivity and timing technology, and hardware adaptability for evolving use cases and future electronic trading requirements. The Alveo X3 low-latency data center accelerator card can serve as a plug-and-play NIC, providing deterministic response time for rapid, reliable trade execution.

Cascade, with SiTime's MEMS technology combined with a low noise and feature-rich on-chip PLL IC, enables more robust system timing. This ClkSoC precision timing solution is designed to deliver ultra-low jitter even in the presence of noise, always-accurate frequency synthesis without crystal capacitive mismatching, 10x greater vibration resistance, always-reliable startup in harsh environments and fast hitless switching to ensure redundancy.

Learn more about the SiTime precision timing solutions:

- Cascade Jitter Cleaners/Network Synchronizers
- Cascade Clock Generators
- Emerald Platform™ Stratum 3E OCXOs
- Elite Super-TCXOs®
- Differential Oscillators

Download Alveo X3 – Cascade Clock Generator Image.

Discover the full range of SiTime MEMS precision timing solutions.

Read the AMD/Xilinx Alveo X3 series blog.

Visit the SiTime Timing Essentials Learning Hub to learn more about precision timing.

About SiTime

SiTime Corporation is a market leader in silicon MEMS precision timing. Our 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 over 3 billion devices shipped, SiTime is changing the timing industry. For more information, visit www.sitime.com.

Note on Forward-Looking Statements

This press release may contain forward-looking statements regarding future events. 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: our ability to ship products; 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 more recent Form 10-Q filed 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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