SiTime's +105°C Elite Super-TCXOs Named Product of the Year by Electronic Products Magazine

MEMS Timing Devices Recognized for Enabling 5G Anywhere with Best Dynamic Performance and 30x Better Reliability

SANTA CLARA, Calif., January 23, 2019 – SiTime Corporation, a leading provider of MEMS timing, today announced that its +105°C Elite Platform™ Super-TCXOs™ have been named the Product of the Year by Electronic Products magazine in the Analog/Mixed-Signal ICs category.

"The SiTime Elite Platform Super-TCXOs are outstanding timing products with high-performance features, including high dynamic stability, ultra-low jitter, wide frequency range, and programmability," said Gina Roos, editor-in-chief, Electronic Products. "These are high-frequency and tight-stability TCXOs that deliver ±100-ppb frequency stability over an extended temperature range up to 105°C, enabling them to be used in a wide range of high-reliability end markets from networking and RF/wireless to avionics and defense and including 5G applications."

From thousands of products launched in 2018, the editors of Electronic Products have chosen those they feel are among the most outstanding. As always, the selection is based on a significant advance in technology or its application, innovation in design, or gain in price/performance.

"5G's goal of delivering multi-gigabit bandwidth with very low latency requires a 10x improvement in timing and synchronization performance. As 5G equipment is deployed closer to the consumer, in uncontrolled environments, the timing system needs to sustain its performance in the presence of environmental disturbers such as vibration, shock, high temperature and fast thermal ramps," said Piyush Sevalia executive vice president of marketing at SiTime. "SiTime's Elite Platform Super-TCXOs exceed 5G's timing requirements and enable 5G to be deployed anywhere. We're honored that Electronics Products has recognized the unique capabilities of the Elite Super-TCXOs with their prestigious Product of the Year award."

About Elite Platform Super-TCXOs
The only high-frequency (1 to 220 MHz) TCXOs in the industry with ±100 ppb frequency stability up to 105°C, successfully deployed across many 4G+ and 5G systems, Elite Platform Super-TCXOs continue to redefine TCXO performance.

SiTime's Elite Platform Super-TCXOs are designed with a novel DualMEMS™ architecture. This architecture combines the world's most accurate temperature sensor, along with a proprietary temperature compensation scheme (TurboCompensation™) and a low-noise frequency synthesizer, to deliver exceptional dynamic stability, ultra-low jitter, wide frequency range, and programmability.

Key features include:

- -40 to +105°C operating temperature
- 1 to 220 MHz LVCMOS or clipped sinewave outputs
- Frequency stability grades of ±0.1, ±0.2, ±0.25 ppm
- Best dynamic stability for resistance to airflow and thermal shock
- No activity dips or micro jumps
- Integrated LDOs for filtering power supply noise

- TCXO, VC-TCXO, and DC-TCXO operation modes
- Continuous operation outside of rated temperature range

About SiTime

SiTime Corporation, the leader in MEMS timing and a wholly owned subsidiary of MegaChips Corporation (Tokyo Stock Exchange: 6875), offers MEMS-based silicon timing solutions that replace legacy quartz products. SiTime's configurable solutions enable customers to differentiate their products with higher performance, smallest size, lowest power, and best reliability. The rich feature set and flexibility of SiTime's solutions allow customers to consolidate their supply chain, reducing the cost of ownership and time to market. By using standard semiconductor processes and high-volume packaging, SiTime offers the best availability and shortest lead times in the industry. With 90% market share and over 1 billion devices shipped, SiTime is driving the electronics industry to use 100% silicon-based timing. www.sitime.com.