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Celera Motion Introduces World's Smallest, Fastest Servo Drive

The new blisteringly fast Everest S is about 30% smaller, includes Dual-BISS-C feedback support and is ideal for surgical robots, exoskeletons and other applications

BEDFORD, Mass. (Oct. 20, 2022) — Celera Motion, an [award-winning](#) business unit of Novanta Inc., today announced the introduction of the world's smallest and fastest servo drive.

The new Everest S, the latest addition to the popular [Everest Series](#), is about 30% smaller than its predecessor, making it the world's smallest servo drive. It's also the fastest: The EtherCAT and CANopen versions deliver bus latency reduced to 1 cycle, making Everest S the fastest servo drive on the market today.

The Everest S includes all the best features of other Everest servo drives — plus it now also includes Dual BiSS-C feedback support, a highly sought-after feature. And because it combines 16-bit differential current and four configurable ranges, Everest S delivers flawless resolution and is ideal for virtually any market application.

“We’re excited to introduce the Everest S to meet the growing demand for smaller, faster servo drives that provide more space for applications and even better performance,” said Marc Vila, Director of Strategy & Business Development for Celera Motion. “Our goal is to give product designers as much freedom and flexibility as possible, and the Everest S delivers that and more.”

Designed with 3 kW of power and a starting weight of just 18 grams, the Everest S is ideal for applications such as surgical robots, exoskeletons, Pan Tilt gimbals, collaborative robots, legged robots and autonomous mobile robots.

The Everest S offers several advantages, including:

- Best-in-class motion-control performance, efficiency, and integration capabilities
- An optimized hardware architecture that allows for high-speed communication protocols with minimum latency



- A current loop running at 50 kHz and a velocity loop at 25 kHz, guaranteeing optimal performance for motors
- An ultra-compact design with an extremely low profile and a lightweight design
- Multiple integration options and superior power management
- The latest motion-control software with a user-friendly configuration wizard and diagnostics.

High-speed SPI bus communication is available for optimized EtherCAT/CANopen multi-axis architectures. Everest S also has been designed to meet industrial functional safety standards to ensure continuous safe operation.

Everest S is the latest version of Summit Servo Drives Series. Others include the [Capitan Series](#) and the Denali Series.

To learn more about the Everest S Series, visit <https://ingeniamc.com/everest-s-series/>.

About Celera Motion

Celera Motion, headquartered in Bedford, Massachusetts, is a market-leading provider of motion-control components and subsystems for OEMs serving a variety of medical and advanced industrial markets. Celera Motion offers precision encoders, motors, and customized mechatronic solutions that help customers solve challenging motion-control problems. For more information, visit www.celeramotion.com

About Novanta

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies. For more information, visit www.novanta.com.

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