

SERVO DRIVE

Suitable for surgical robots and exoskeletons

Celera Motion (U.S.A.) has launched the CANopen Everest S servo drive, which is 30 % smaller than the company's CANopen predecessor drives.



The Everest S servo drives feature CANopen connectivity (Source: Celera Motion)

The product by a business of Novanta includes all the features of other Everest servo drives — plus a dual BiSS-C interface for encoders. It combines 16-bit differential current and four configurable ranges.

“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 from 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 g, the Everest S is suitable for applications such as surgical robots, exoskeletons, Pan Tilt gimbals, collaborative robots, legged robots, and autonomous mobile robots. A current loop running at 50 kHz

and a velocity loop at 25 kHz guarantee performance for motors, said the company.

The motion-control software provides, according to the supplier, a user-friendly configuration wizard and diagnostics features. A high-speed SPI communication is available for optimized CANopen multi-axis architectures. The Everest S drive also has been designed to meet industrial functional safety standards to ensure continuous safe operation, the company continued.

Celera Motion, headquartered in Bedford, Massachusetts, is a provider of motion-control devices and subsystems for OEMs (original equipment manufacturer) serving medical and other industrial markets. Celera Motion offers precision encoders, motors, and customized mechatronic solutions that help customers solve motion-control problems. The company is a business unit of the Novanta, a technology partner to OEMs with expertise in photonics, vision, and precision motion technologies.

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