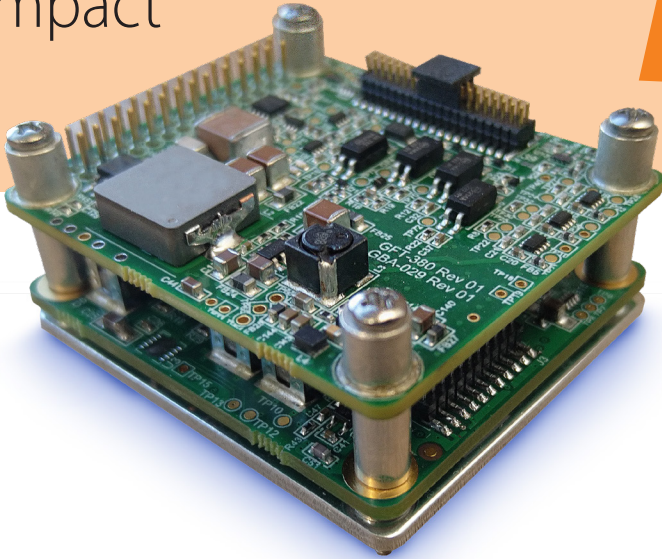


Graphite Servo Drive Compact

gevasol Ping

January 2025



- Industrial Automation
- Medical Devices
- Aerospace and Defense
- Semiconductor
- Manufacturing
- Renewable Energy Systems
- Agriculture and Food
- Processing
- Automotive and Electric
- Vehicles (EVs)

Compact Yet Powerful Family of Servo Drives

The Graphite Servo Drive is a highly compact solution designed for demanding motor control applications. It combines advanced servo functionality with a scalable and modular design, ensuring seamless integration and long-term reliability in demanding environments.

- Scalable design supports electrical and mechanical variations with future enhancements.

Key Features:

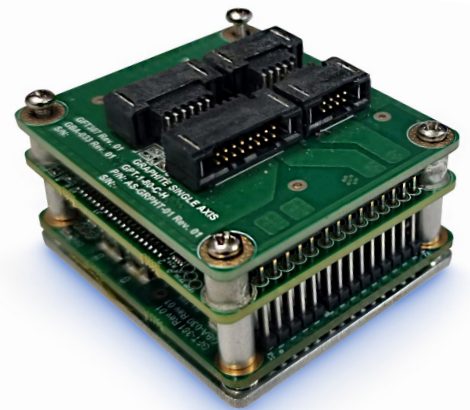
- Miniature, compact drive supports small to medium BLDC, DC, and bipolar step motors.
- Operates on 12–80 VDC, delivering up to 15 Arms.
- Two-PCB structures, automated surface-mount assembly, and simplified mechanics lower costs.
- GFTuner software enables auto-tuning, gain scheduling, and transfer function identification.
- Scalable and modular: Ready for industrial enclosures and expanded capabilities.
- Wide temperature range, vibration resistance, and long-term component availability.
- Extended memory for supporting an application layer.

Specifications:

- Axes: 1
- Motor Types: Brushed, Brushless, Bipolar Steppers.
- Power Supply: 12–80 VDC, surges up to 100 VDC
- Current: 15 Arms continuous.
- Efficiency: 98.5%
- Protection: Short circuit, over-voltage, thermal limits
- Feedback: Incremental, SSI, eBis, Hall sensors
- I/O: 2 optically isolated inputs and outputs
- Reliability: MTBF > 1,000,000 hours at 40°C
- Vibration Resistance: 20–2000 Hz, 14.6 g
- STO
- Communication: RS232, RS422, CAN, RS-485, SPI, EtherCAT, USB
- Temperature Range: -40°C to +71°C

Contact us:

gevasolmotion@gevasol.com
Tel: +54-654-7947



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feedback technologies

www.gevasol.com/motion-control/