

Compumotor's New GV6K and GT6K Stand-Alone Drive/Controllers

...Combining the power of Compumotor's versatile 6K controller with the performance and reliability of the Gemini digital servo and micro-stepper drive in a single stand-alone product.

Controller Features

Connectivity

- Two serial communication ports - one RS232 port (3 wire), one RS232/RS485 port (4 wire)
- Ethernet communication port (TCP/IP, 10 Mbps twisted pair)
- Imbedded *Ethernet Client* - for use with AB PLCs, OPTO22™ Snap I/O, DVT™ vision systems, etc.
- One Master Encoder port for using external master input signal
- Full ASCII communication capability
- Expandable I/O (up to 256 discrete I/O points)
- I/O compatibility for use with PLCs

Software and features

- Programming via Compumotor's popular Motion Planner™ software package, including Gemini Motor Configuration and Drive Setup wizards
- Complete position-based following and electronic cam profiling
- Compiled moves
- PLC Scan Mode
- Multi-tasking (up to 10 individual tasks at once)
- Floating point, integer and binary variables with high level math functionality
- Full scaling functionality
- Data Arrays and Data Teaching
- Comprehensive program monitoring, status, and diagnostic features
- Compatible with platforms such as VisualBasic™, Visual C++™, LabVIEW™, WonderWare™, etc.
- 300Kb memory storage, battery-backed

I/O Capability

- Fully configurable input/output functionality
- 5-24VDC selectable voltage level; software selectable switching levels
- All I/O points selectable as sinking or sourcing
- Onboard I/O - 8 digital inputs (3 limits, 5 programmable), 6 digital outputs, 1 analog input, 2 D/A monitor outputs, 1 relay output
- Expandable I/O of up to 256 additional discrete digital I/O points, 64 analog I/O points, or a combination of both digital and analog points

...elevating the Gemini family to a whole new level of functionality, flexibility, and sophistication !!

Drive Features

Standard Functionality

- Fully digital torque, velocity, and position loops
- 24V Keep Alive circuitry (REQUIRED)
- maintains vital status info when AC power is lost
- Simplified motor tuning and configuration
- Error logging
- Sophisticated protection circuitry (short circuit, brownout, over-voltage, over-temperature)
- All cables and accessories interchangeable between servo and stepper versions

Servo Drive Features

- Encoder or resolver feedback capability
- Sinusoidal commutation
- Digital Notch Filters
- Compatible with linear servo motors
- Software selectable resolution
- any integer between 200 – 1,024,000 counts/rev
- Wide range of drive current levels
- 120VAC or 240VAC input voltage

Stepper Drive Features

- Encoderless Stall Detect
- Active Damping, ABS Damping and Electronic Viscosity circuitry
- Compatible with linear stepper motors
- Software selectable step resolution
- any integer between 200 – 128,000 steps/rev
- Multiple current versions available
- 120VAC input voltage

