

Glentek's SynqNet[®] Digital PWM Servo Amplifiers

Features

- 100% SynqNet[™] compliant Allows complete drive configuration, control, monitoring and firmware updates over the SynqNet[™] network. Synchronizes to SynqNet[™] network update to minimize update jitter and skew for improved motion control.
- Digital current loops Current loop bandwidths up to 3 kHz.
- Digitally tuned All parameters set digitally. No potentiometers to adjust. DSP control for the ultimate in high performance.
- Silent operation 24 kHz PWM standard.
- Complete isolation Complete optical isolation between signal and power stage.
- Wide operating voltage 24-370 VDC for Amplifier modules. All stand-alone and multi-axis versions can be ordered for operation from either 110-130 VAC or 208-240 VAC (single or 3-phase, 50/60 Hz).
- Direct AC operation No transformer required for stand-alone units or multi-axis chassis. Most stand-alone units and all multi-axis chassis include a DC bus power supply, regen clamp with dumping resistor, in-rush current limiting protection at power-on and cooling fans. Note: A reduced cost stand-alone version is offered which does not include the regen circuit or cooling fans.
- Fault protection Short from output to output, short from output to ground, amplifier RMS over current, amplifier under/over voltage, amplifier over temperature, motor over temperature, primary and auxiliary encoder broken wire.
- RS-232 High speed (115.2K baud) serial communication interface for set-up and tuning.
- Software configurable Glentek's Windows[™] based MotionMaestro[™] software provides ease of set-up and tuning with no previous programming experience required. This software is Windows[™] 95/98/2000 and NT compatible. Configuration can also be performed over SynqNet[™].
- Non-volatile memory All parameters are stored in non-volatile memory. Up to two configurations can be stored at one time.
- Dedicated optical inputs +/- limits, node disable, home and motor over temp(non-isolated).
- Dedicated optical outputs Node alarm and brake.
- General purpose inputs 2 optically isolated and 2 high-speed differential receivers.

- General purpose outputs 2 optically isolated and 2 high-speed differential transmitters.
- Encoder feedback Accepts encoder signals up to 4.3 Mhz. Accepts traditional and reduced wire encoders (Tamagawa, Sanyo Denki and Yaskawa).
- Power on phase finding Eliminates the requirement for Hall sensor/commutation tracks for many applications.
- Auxiliary encoder inputs A, B and index channels passed to the controller.
- Status indicator 7-segment display indicates amplifier status and fault codes.
- Sinusoidal commutation For the ultimate in efficiency and smooth motion. Commutates from almost any resolution rotary encoder or linear scale.
- SMT construction Provides ultra compact size, cost competitive package and high reliability.
- CE compliant All servo amplifiers are CE marked.