Xarach Controls Introduces the X100

Max out your steppers! Melt your mill!



X100 Front Panel



X100 Back Panel

X100 Features:

- 1 to 4 axis step motor controller in 2 rack unit case (17" x 3.5" x 13")
- Expansion unit will be available for 6 axis applications
- Uses popular Geckodrive G202 microstep drivers
 - > 1 to 7 Amps per motor phase, settable in 1/4A steps
 - > Highly efficient, short-circuit protected
- Future-proof high performance
 - > Uses Geckodrive G101 (G-REX) fieldprogrammable stepper controller
 - ➤ Up to 4 MHz step rate (compared with max PC parport driven rates of 0.1 MHz)
 - > Super smooth, low jitter
 - Firmware and internal logic completely reprogrammable without expensive tools
 - > Use any web browser to update firmware and logic via Ethernet
 - > X100 manufacturer also designed and implemented the standard G-REX firmware
- 640 Watt switchmode power supply
 - Universal input voltage range (100-250VAC, 50/60Hz), power factor corrected
 - > 48V 13A standard, 24 or 72V optional
 - > Efficient and light weight
- Differential 3-channel incremental encoder inputs per axis
 - ➤ No lost steps, even if emergency stop
 - ➤ Ultimate performance
 - ➤ Adaptive feed rates and torque monitoring possible
 - Can also be used with 2-channel and/or single-ended encoders
- 4 digital inputs per axis (switch to ground, 48V tolerant, ESD protected)
- 2 digital outputs per axis (switch to ground, 100mA)

- 4 analog inputs (0-5V, 8 bit resolution, 1000 samples per second)
- 4 analog outputs (0-10V or 0-5V, 8 bit resolution, 1000 samples per second)
- Industry standard 24V I/O standards, also supports TTL levels
- High quality cage-clamp pluggable screw terminals for all rear connections
- Safety features
 - > Emergency stop (estop) input, which is also monitored by controller
 - > Front panel start button required after estop or loss of power
 - > estop cascade output (safety relay contact)
- Two **Solid-state-relay** switched AC outlets
 - ➤ 10 Amps 250VAC maximum
 - > Zero voltage switching
- 10 Megabit Ethernet (10 base T) communications to host PC
- Supported by popular Mach (ArtSoft) CNC driver - Mach-IV verion when available
- Open source software available
 - Unit can also be used as standalone Gcode interpreter for repetitive applications
- Internal microprocessor is based on Rabbit Semiconductor code module.
 - > Fully reprogrammable for those who wish to roll their own firmware
 - > Has on-board 1 Megabyte non-volatile storage

Availability: First half 2006

Estimated price: \$2,895 fully configured

For more information, contact:

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