TG-1000 Tiger Controller

The Tiger controller is an expandable modular card rack based system. Racks are available with either 8 or 16 card slots. The Tiger is designed to control one or more microscope workstations simultaneously from a single USB connection.

TIGER Cards Currently Available:

- **TGCOM** - Communication card. It connects to host computer with USB interface, and provides communication with all cards in the TG8 or TG16 box.
- **TGDCM2** - Dual axis motion control card - one slot.
- **TGADEPT** - Single axis motion control card - two slots.
- TGDAC: DAC voltage control card - used for controlling 0-10V piezo devices.
- **TGFW** - Dual FW-1000 Filter wheel control card - two slots.
- **TGMM4** - Four-axis micro-mirror scanner control card.
- **TGDAC** - Piezo DAC Card. It provides 2 DAC (0 to 10 V) outputs to control third party piezos.
- **TGCRISP** - CRISP card. It provides CRISP focus control of DC servo stage such as LS-50, has TTL I/O.
- **TGPLC** - Field-programmable card for digital logic, like a mini-FPGA. Has eight front-panel I/O ports plus connections to the Tiger backplane.
- **TGTTL** - Jumper-configurable TTL card with four I/O ports. For most applications this has been replaced by TGPLC.
- **TGBUF** - Two-channel 50ohm TTL driver.
- **TGLED** - Tiger plug-in card that can drive up to four MIM LED-LAMP-NRs (high brightness LED illuminators).

Product Numbers:

TG_BASIC: Includes TG8, TGCOM, 2) TGDCM2, SA-JOY+ZF. Controls four DC servo motors, Com card w/ USB, power supply, and joystick w/ two knobs; 5 more free slots.

TG8: Eight-slot power supply and chassis/box for motion control cards. Bench size 9.25"W x 5.5" H x 10.25"D. 100-240 VAC Input.

TG16: Sixteen-slot power supply and chassis/box for motion control cards. Rack-mount size 19"W x 5.5"H x 12.5"D. 100-240 VAC input.