



APPLIED SCIENTIFIC  
INSTRUMENTATION

## 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.

### TG-1000 Configurations:

- **TG8-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.
- **TG16-BASIC** - Includes TG16, TGCOM, 2) TGDCM2, SA-JOY+ZF Controls four DC servo motors, Com card w/USB, Power supply, and Joystick w/ two knobs; 13 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.

### 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 10V) 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 For most applications this has been replaced by TGPLC.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:

**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.