



DELTA TAU

# Turbo PMAC2 Ethernet Ultralite Stand-alone **MACRO** Ring Controller



## Product Description

### PRODUCT DESCRIPTION:

The Turbo PMAC2 Ethernet Ultralite is a new MACRO ring controller capable of handling 32-axis of control in a convenient, stand-alone package. Communicating to the PC via Ethernet /USB/Serial, the controller provides simplified wiring to the UMAC MACRO, Geo MACRO Drives, MACRO peripherals and any other third party MACRO devices.

The Delta Tau Turbo PMAC2 Ethernet Ultralite high-speed 125 Mbits/sec transfer rate is capable of closing the current loop and servo loop across the MACRO ring, allowing the flexibility to choose distributed intelligence or centralized control through a fiber optic or twisted pair copper (RJ45 connector) ring.

This package also provides optional connectivity to different FieldBus networks such as CANopen, DeviceNet, ProfiBus and CC-link, a high performance system that delivers high speed, high resolution, single Ethernet cable connectivity and precise synchronization all at an affordable cost!

### Turbo PMAC2 Ethernet Ultralite

38mm (1.5") W x 180mm (7") D x 230mm (9") H



### BASE SPECIFICATIONS:

- 80 MHz DSP56303 Turbo PMAC CPU
- 128K x 24 SRAM compiled / assembled program memory
- 128K x 24 SRAM user data memory
- 1M x 8 flash memory for user backup & firmware
- 32K x 16 bank of dual-ported RAM
- Latest released firmware
- USB 2.0, Ethernet, and RS-232 communications
- (No on-board axis interface circuitry)
- Two channels supplemental interface circuitry each including:
  - One channel differential/single ended encoder input
  - One output command signal set, configurable as bpulse-and-direction or PWM top-and-bottom pair
  - I/O VDC DAC output in differential/single ended mode
  - Two I/O VDC 12 bit ADC channels
- Direct I/O interface port

### OPTIONS:

#### CPU and Memory Options

- Opt 5C0: 80 MHz CPU, 256k x 24 SRAM, 1M x 8 Flash (Std.)
- Opt 5C3: 80 MHz CPU, 1M x 24 SRAM, 4M x 8 Flash
- Opt 5F3: 240 MHz CPU, 1M x 24 SRAM, 4M x 8 Flash

#### Interface Options

- Opt A: MACRO-ring fiber optic interface connector
- Opt C: MARCO-ring RJ45 interface connector
- Opt 2B: On-board 32K x 16 dual-ported RAM
- Opt 15F: ModBus Communication Protocol

### MACRO Amplifiers:

3rd Party **MACRO** Amplifiers



Delta Tau's  
Geo MACRO Drive



Single Source Machine Control

Power ~ Flexibility ~ Ease of Use

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