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Turbo UMAC CPU

32 Axis Controller

Part Number: 3R0-603382-10x

The UMAC (Universal Motion and Automation Controller) is a modular system built with a set of 3U format Eurocards. The configuration of any UMAC System starts with the selection of the UMAC Turbo CPU/Communications Board and continues with the addition of the necessary axes boards, I/O boards, and any other interface boards selected from a variety of available accessories.

The UMAC Turbo CPU/Communications Board is a member of the Turbo PMAC2 family of boards. Its software is capable of 32 axes of control. Accessory boards installed in the UMAC Turbo System interface between the UMAC Turbo CPU/Communications Board and the machine to output amplifier command signals, to input feedback information, and to input flags information including end-of-travel limits and machine home sensors. Different kinds of axes interface boards can be selected to control analog ±10V amplifiers, stepper drivers and direct digital PWM amplifiers.

Features | Accessories

- Motorola DSP 56k digital signal processor, CPU options from 80 to 240 MHz
- Flash, battery-backed and flash□attery on-board memory options
- From 1 to 32- axes of highly accurate, simultaneous, motion control
- Analog ±10V, digital PWM or stepper amplifier outputs are supported
- PC/104 Bus, serial RS-232, Ethernet or USB Control
- Stand-alone operation
- 36-bit position range (+/- 64 billion counts)
- Dedicated per axis overtravel limit, home, amplifier fault/enable flags
- Optional super-high accuracy clock crystal (<10 ppm) for long term moves accuracy
- Advanced lookahead feature for highly accurate acceleration and velocity control
- Built-in inverse kinematics functions for robotics applications
- S-curve acceleration and deceleration
- Cubic trajectory calculations, splines
- Advanced PID servo motion algorithms
- Linear and circular interpolation
- G-Code command processing for CNC
- 256 motion programs capacity
- Asynchronous PLC program capability
- Rotating buffer for large programs
- Electronic gearing

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Features Accessories

Axis Interface Boards

- **ACC-24E2** - 2 Axis Digital Direct PWM Axis Interface Board
- **ACC-24E2A** - 2 Axis Analog Servo Interface/Breakout Board
- **ACC-24E2S** - 4 Channel Encoder/Stepper Axis Interface Board

Feedback Interface Boards

- **ACC-51E** - 2 Axis 4096x High-Resolution Analog Encoder Interpolator Board
- **ACC-53E** - 4-Channel Synchronous Serial Encoder Interface (SSI) Board
- **ACC-57E** - Yaskawa or Mitsubishi Absolute Encoder Board
- **ACC-58E** - 2 Channel 16-Bit Resolver-to-Digital Converter Board
- **ACC-59E** - 8 Channel, 12-Bit D/A and A/D Converter Board
- **ACC-69E** - Axis Interface for SLM Technology Amplifiers
- **ACC-70E** - Tamagawa® Encoder Interface Board

Digital I/O Boards

- **ACC-11E** - 24-Input/24-Output Backplane Board
- **ACC-14E** - 48-Bits Input/Output Board
- **ACC-28E** - 2 or 4 Channel High Resolution 16-bit A/D Converter Board
- **ACC-36E** - 16 Channel, 12 Bit A/D Converter Board
- **ACC-65E** - 24 In / 24 Out Self-protected 12-24VDC I/O Board
- **ACC-66E** - 48 Inputs, Sourcing, Self-protected 12-24VDC I/O Board
- **ACC-67E** - 48 Outputs, Sourcing, Self-protected 12-24VDC I/O Board

Integrated Rack/Backplane/Power Supply

- **ACC-R1** - Integrated UMAC Rack with 6 Slot Backplane

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ACC-R2 - Integrated UMAC Rack with 12 Slot Backplane

ACC-R3 - Integrated UMAC Rack with 18 Slot Backplane

UMAC Filler Plates - Front, Top and Bottom Filler Plates for the 3U UMAC Rack

Rack Accessories

ACC-P1 - 10 1/2 Slot 3U Rack for UMAC

ACC-P2 - 15 Slot 3U Rack for UMAC

ACC-P3 - 21 Slot 3U Rack for UMAC

Backplane Accessories

ACC-U10 - 10 Slot 3U Backplane Board for UMAC

ACC-U12 - 12 Slot 3U Backplane Board for UMAC

ACC-U14 - 14 Slot 3U Backplane Board for UMAC

ACC-U16 - 16 Slot 3U Backplane Board for UMAC

ACC-U18 - 18 Slot 3U Backplane Board for UMAC

ACC-U4 - 4 Slot 3U Backplane Board for UMAC

ACC-U6 - 6 Slot 3U Backplane Board for UMAC

Power Supply

ACC-E1A - High-power AC-Input power supply for UMAC System

ACC-F1 - The Accessory F1 is a 24Vdc input power supply for Delta Tau

Macro Accessories

ACC-5E - Macro and I/O Port Interface Board

PC/104 Accessories

ACC-PC104 - PC-104 size COMPUTER

Demo/Test Accessories

ACC-56E - Extender Board with 3U Fused Backplane

ACC-61E - UMAC 21 Slot Rack Demo Unit

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