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- LEASING/MONTHLY RENTALS
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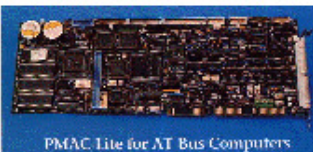
Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com

PMAC-PC 4/8 Axis



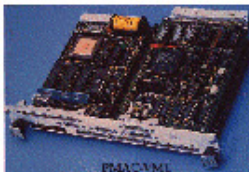
PMAC-PC for XT/AT Bus Computers

PMAC-Lite 4-Axis



PMAC Lite for AT Bus Computers

PMAC-VME



PMAC-VME

PMAC-STD



PMAC-STD

- Basic 4/8 Axis PMAC Specifications -

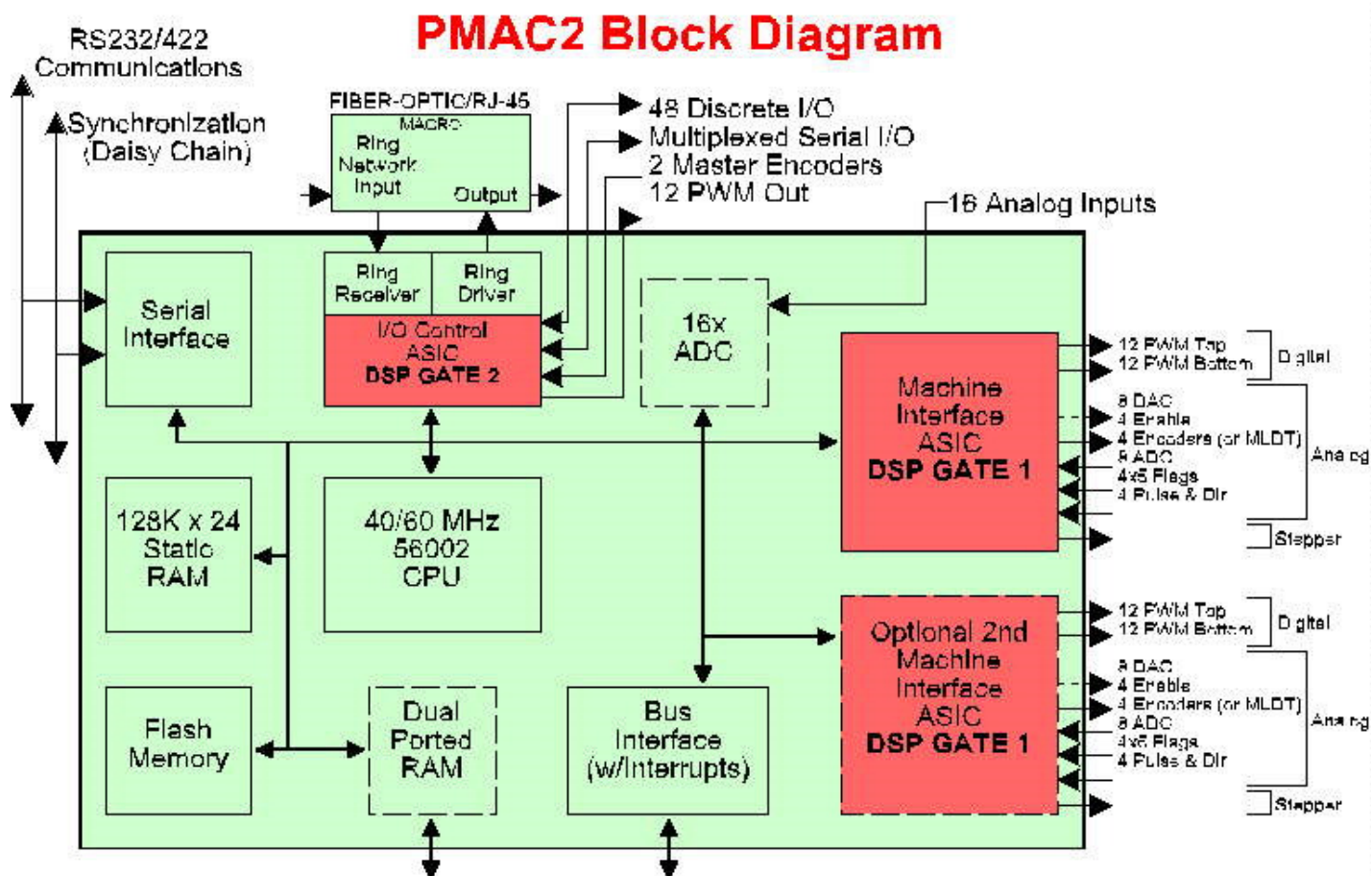
- Motorola DSP 56001, 56002, and 56003 Digital Signal Processors
- Battery Backed Ram, Flash Memory, or Combinations of Flash & Battery Backed
- Up to 8 Servo Axes per Board
- Available in 20, 40, 60 and 80 MHz Versions
- High Servo Update Rate ...Default @ 2.2 KHz - Increase or Decrease Servo Rate based on Application Requirements ...
- PC, VME or STD32 Bus Versions (All PMACs can run entirely Stand-Alone)
- Position Range +/-64 Billion Counts
- 16-Bit DAC Output Resolution
- 10-40Mhz Encoder Count Rates
- Control any Type of Motor
- 200 - 1000+ Blocks/Second Execution Rates
- Multi-Axis 3-D Interpolation - Linear/Circular
- "S-Curve" Acceleration and Deceleration - Full or Partial
- Cubic Trajectory Calculations, Splines
- 1..8 Coordinate Systems (All Axis Synchronized 1-C.S., Independent-Asynchronous Axis Commanded Independently ... Application Definable, Translation & Rotation)
- Independent Program Execution in each Coordinate System (C.S.)
- Bus Port, RS-232/422, and HiSpeed Dual-Port Ram Communications Option
- "G-Code" and "M-Code" Command Processing for CNC
- 2-Axis Motion Control From AutoCAD Files
- PID plus Notch (Resonance Control) and Feed-Forward Filter
- Auto-Tuning of Motors
- Axis Scaling in User Units (Inch, Metric, Degrees, etc.)
- Electronic Cams, Gearing, Ratios
- Lead-Screw Compensation
- Dual-Feedback - Position (Load) and Velocity (Motor) - Stability
- Dead-Band Control
- Calculation: 56-Bit and Residuals (Accuracy ... Smoothness)
- On-Board Data Gathering/Logging for System Analysis
- Hardware Based: High-Speed Position Capture and Compare
- 2048 Floating-Point Variables per PMAC
- Inverse Kinematics Computations

PMAC2 Feature Summary

- Speed, 56002 CPU, 40 MHz and optional 60 Mhz and 80 Mhz.
- Customer retains all existing application (User) programs.



- Two new large Gate Arrays (40K + gate equivalence).
 1. - Direct digital PWM outputs for driving digital amps. Current loop closed on-board.
 2. - Pulse and direct on output on-board for stepper motors.
 3. - MLDT (Magnetostrictive Linear Displacement Transducer) measurement performed on-board, with 120 MHz clock for high resolution position measurement.
 4. - Hall effect read on-board for motor phasing.
 5. - Fiber Optical/RJ 45 high speed serial link MACRO (Motion Control Ring, Optical).
- Flash ROM replaces battery (Save function takes 8 seconds).
- Firmware change possible via Bus or RS232 (no battery used).
- Buffered I/O for Robust Control.
- Most I/O connectors are still there plus new I/O added.
- 16 A/D converter channels on-board (option).
- Dual ported RAM on-board (option).
- Uses partial surface mount technology.
- Has PC and VME formats, also PMAC2-Lite (4 axis only) and PMAC2-Ultra Lite (MACRO only).
- Requires new accessory, 8E (Analog) and 8F (Digital).

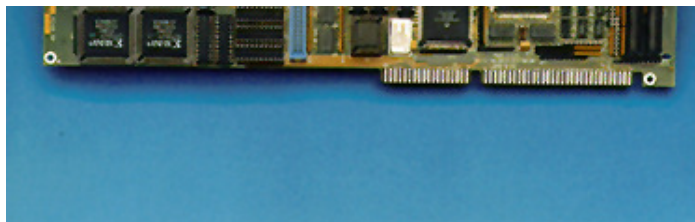


PMAC2 - Multiple Operational Modes

- Single analog output, position feedback (Classic Analog +/-10V).
- Dual analog output, position feedback (commutation, AC induction or DC brushless).



- Pulse and direction output, optional feedback (stepper motor).
- Direct PWM output, current and position feedback (digital drive).
- Ring network output, ring network feedback (fiber optic, MACRO).
 1. -Position, Velocity, Torque or PWM
Commands can be transmitted over the MACRO ring.
 2. -Position feedback values, encoder/resolver, are read via the MACRO Ring
 3. -Amplifier diagnostic information (Current, Bus Voltage, Temperature, Shunt Status).
 4. -I/O Control can be mixed with Axis Control.
- Communication via RS232, ISA Bus, MACRO, DPRAM.



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