

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Concurrent Computer Corporation PowerMAXION* at our website: *Click HERE*



The PowerMAXION Multiprocessor

Concurrent's PowerMAXION is the industry's first PowerPC symmetric multiprocessor available in a standard 6U VME form factor. The PowerMAXION offers advanced capabilities in real-time computing -- full scalability, real-time determinism and true symmetric multiprocessing. The PowerMAXION 's three-tier memory architecture -- cache, local and global memory-- supports optimum throughput and processor scalability by eliminating performance bottlenecks found in traditional multiprocessing systems. Further information on the PowerMAXION. The PowerMAXION is also available in a standard Air Transportable Rackmount (ATR) enclosure.

PowerMAXION Multiprocessor

Features

- High-performance symmetric multiprocessing real-time computer system
- Up to eight PowerPC 604e RISC processors
- Standard VME double-height (6U) format (Size B - 160 mm by 233 mm)
- Less than 8 microsecond response time of external interrupts to user level applications
- 1.6 GB/second memory bandwidth
- Up to 64 MB of local memory per processor
- Global memory up to 256 MB
- 1 MB secondary inline cache per processor
- Industry standard VME64 I/O subsystem
- Industry standard PMC interface
- PowerMAX OS real-time UNIX-based operating system
- Comprehensive C, C++, FORTRAN, and Ada development and run-time environments
- Remote diagnostics for easy maintenance and low Mean Time To Repair (MTTR)
- Night Hawk and MAXION family compatibility
- NightStar real-time software development tools
- Commercial-off-the-shelf (COTS) or Rugged-off-the-shelf (ROTS) configurations

Overview

The PowerMAXION is a member of Concurrent's family of high-performance, real-time, multiprocessing computer systems. This latest member of the Concurrent family features the 150 or 200 MHz PowerPC 604e RISC processor.

Designed for Real-time

The PowerMAXION brings new capabilities to real-time symmetric multiprocessing computing - scalability, real-time determinism and true symmetric multiprocessing in a standard 6U VME format. The system incorporates edge-triggered interrupts, real-time clocks, deterministic real-time response, a full set of multiprocessing development tools and up to two standard Peripheral Component Interconnect Mezzanine Card (PMC) slots. The PowerMAXION architecture provides optimum performance and true processor scalability with three levels of memory: cache, local and global.

The PowerMAXION supports PowerMAX OS, the most powerful real-time UNIX-based operating system available today. Fully compliant with industry and international standards, the system also offers a rich collection of software development tools, advanced technology compilers and a comprehensive Ada environment. Customers can develop real-time systems and deploy production units using the same system and software, thus reducing development time and costs.

Upgrades Made Easy

Since 1989, Concurrent systems have provided an industry-unique solution to technology obsolescence: the Pre-Planned Product Improvement (P3I) program. Created to facilitate system expansion and upgrades with simple incorporation of new hardware and software technology, P3I protects customer investment in hardware, software and training.

Technical Specifications

Central Processor

- Number of CPUs: 1 to 8
- CPU technology
    - 150 MHz or 200 MHz PowerPC 604e
    - 64 KB primary cache
    - IEEE 754 floating point
    - 4 GB logical and physical address space
    - 1 MB secondary cache

Memory

- 32 or 64 MB local DRAM with ECC per processor card
- Up to two global memory cards
- 32, 64, 96 or 128 MB ECC DRAM per global memory card

Integrated Real-time Hardware

- 4 edge-triggered interrupts
- 5 real-time clocks at 250 nanosecond resolution
- Interval timer - 64 bits at 320 nanosecond resolution
- Time-of-century clock
- Watchdog timer - 16 bits

Integrated I/O

- 2 RS-232 ports per processor card
- 2 RS-232 ports and 2 RS-422 ports per global memory card
- VME64 interface port (50 MB/sec)
- Integrated SCSI-2 and Ethernet
- 1 PMC interface (100 MB/sec) per global memory card

Interrupts and Discrete I/O

- 7 VME interrupts
- 4 high-speed, edge-triggered external interrupts
- Circuit card go/no-go discrete signal
- 2 input programmable discrete
- 2 output programmable discrete

Communications I/O

- VME64
- Ethernet (IEEE 802.3) TCP/IP
- FDDI
- ATM
- SCSI-2 Fast/Wide
- X.25 TCP/IP packet switching
- Encore HSD channel
- DEC DR11-W
- IEEE-488 (GPIB)
- 16-line async with parallel port
- Data acquisition interfaces (A/D, D/A, DIO)
- Other interfaces available

Regulatory

- Safety: UL and CSA Approval
- EMI/RFI: FCC Class A Approval

Environmental Requirement

- Operating temp: 10° to 40° C
- Storage temp: -40° to 65° C
- Relative humidity: 10% to 80%

Packaging Options/Physical Characteristics

- Packaging includes: 12- and 20-slot 6U VME options
- 12-slot 6U VME
    - Height: 13.50 in. (34.3 cm)
    - Width: 17.25 in. (43.8 cm)
    - Depth: 20.50 in. (52.0 cm)
- 20-slot 6U VME
    - Height: 22.75 in. (57.7 cm)
    - Width: 17.50 in. (44.4 cm)
    - Depth: 23.00 in. (58.4 cm)
- Ruggedized COTS and Air Transportable Rack (ATR) versions available
    - Operating Temp: -20° to 50° C
    - Storage Temp: -40° to 85° C
    - Operating Humidity: Up to 90% (non-condensing)
    - Non-operating Altitude: Up to 40,000 feet
    - Operating Shock: 15g 11millisec.
    - Operating Vibration: No resonant freq. below 90 Hz

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP