



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com

Contact us: (888) 88-SOURCE | sales@artisantg.com | www.artisantg.com

Artisan Scientific Corporation / Artisan Technology Group is not an authorized distributor of Artesyn Embedded Technologies, Inc. or Artesyn products. Artesyn Embedded Technologies® is a trademark of Artesyn Embedded Technologies, Inc. and is used for identification purposes only.

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins

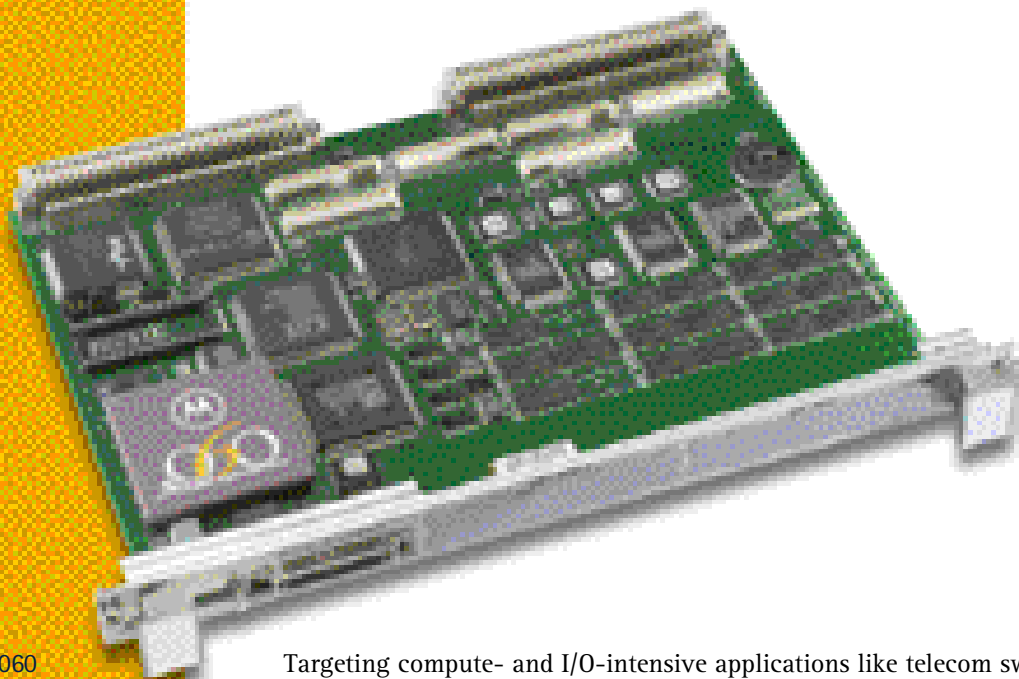
www.artisantg.com/WeBuyEquipment

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisantg.com for more information on price quotations, drivers, technical specifications, manuals, and documentation

Baja68K

VMEbus/PMC I/O platform for real-time communication applications



- 50 or 60 MHz Motorola 68060 CPU with superscalar pipeline architecture, or 66 MHz 68040 for economical integer and floating point performance
- Two 32-bit PMC expansion interfaces accept two single-width or one double-width PMC modules with front panel or P2 I/O
- Optimized VME64 interface features sustained board-to-board data rates in excess of 60 MBytes/Sec
- Implementation of VME64 Extensions subset for flexibility and reliability
- Up to 64 Mbytes of 2-way interleaved DRAM for efficient program execution
- Up to 4 Mbytes user-accessible Flash Memory for large applications
- Two EIA-232 interface ports for flexible serial I/O
- On-card Ethernet for high performance DMA-supported Local Area Networking
- Support for VxWorks and pSOS real-time operating systems and development environments
- Quality assured by over 25 years of experience, ISO 9001 certification and exclusive Gauntlet testing

Targeting compute- and I/O-intensive applications like telecom switching, Intelligent Network switching, network control, LAN to WAN bridging and video-on-demand, the Baja68K features a 64-bit VME64 interface, on-card Ethernet, two serial ports and up to 64 Mbytes of DRAM. It also features a pair of 32-bit PMC expansion interfaces, which make it easy for designers to add custom and off-the-shelf third-party PMC cards.

To address the vast investment in 680x0 applications code by communication system developers, Baja68K features a choice of a 66 MHz 68040 processor or a 68060 processor which is available at either 50 or 60 MHz. This choice of processors provides a convenient upgrade path from the moderately priced 68040 to the 68060 which features nearly three times the performance of the 68040.

The Baja68K's PMC (PCI Mezzanine Card) interface features two 32-bit expansion connectors. The two interfaces can accept either two single-wide or one double-wide module. I/O can be routed either to the front panel or out the P2 connector. Because it supports two PMC modules, the Baja is ideally suited to communications applications requiring support for multiple protocols. By mixing PMC modules the Baja can serve as a high-performance bridge between networks. The I/O flexibility and processor performance make the board ideal as a communication switch controller, and the two PMC slots ensure compatibility with most standard or custom switch interfaces.

For quality in real-time, choose the performance, reliability and responsiveness of Artesyn Communication Products. Our engineers and support group are available to answer your inquiries. Please call 1-800-356-9602 for more details.

bus interface

VMEBUS

- VME64 architecture: D64A32(7)
- Operates in Master or Slave Mode
- 64-bit and 32-bit wide block transfers using local DMA capability
- System level controller functions including 4 level arbitration
- Uses VIC64 VMEbus interface chip optimized via custom ASIC
- 2K D64 block transfers:

68040 version:

Read - 63.06 MBytes/sec
Write - 64.88 MBytes/sec

68060 version:

Read - 49.48 MBytes/sec
Write - 51.39 MBytes/sec

VME64 EXTENSIONS SUPPORT

- 5-row P1 & P2 backplane connectors (compatible with 3-row DIN backplanes)
- Provides 46 additional user-definable lines on P2 connector rows Z & D
- 35 additional signal ground lines
- Slot geographical addressing
- 3.3 Volt power for PMC slots
- Front panel reduces EMI & RFI radiation

MAILBOX INTERRUPTS

- Allows remote control of board via specified VMEbus addresses
- CPU interrupt and VMEbus lock functions supported

PMC INTERFACE

- PCI Mezzanine Card interface
- Two 32-bit PMC expansion slots
- Uses PLX PMC9060 controller with 2 DMA channels
- Accepts 2 single-wide or 1 double-wide PMC module
- 69.9 MBytes/sec sustained transfer rate, 132 MBytes/sec peak
- I/O routed to front panel or P2 connector

processor options

68060

- Motorola 68060 CPU operating at 50 MHz internal (25 MHz external) or 60 MHz internal (30 MHz external)
- Superscalar architecture with dual 4 stage integer execution pipelines
- 8 Kbyte data cache
- 8 Kbyte instruction cache
- 256 entry branch cache
- Floating Point Unit on-chip
- 100% upward user-level code compatible with '040

68040

- Motorola 68040 CPU operating at 66 MHz internal (33 MHz external)
- 4 Kbyte data cache
- 4 Kbyte instruction cache

RANDOM ACCESS MEMORY

- 8, 16, 32 or 64 Mbytes DRAM
- 64-bit data bus
- 2-way bank interleaved architecture
- Transparent discrete hardware refresh

READ ONLY MEMORY

- Up to 512 Kbytes capacity
- Supports 64K, 128K and 512K

FLASH MEMORY

- 1 or 4 Mbytes flash memory
- 512 Kbytes used for monitor & power-on diagnostics
- Provides field upgradeable non-volatile program storage

EEPROM

- 2 Kbytes Non-Volatile RAM
- Storage for user definable parameters such as baud rates, revision levels and configuration information
- Provides field upgradeable non-volatile program storage

peripheral I/O

CONSOLE SERIAL PORTS

- Two front panel serial I/O ports provided via ASIC
- Intel 8251A UART emulation
- EIA-232 standard

ETHERNET INTERFACE

- Intel 82596CA 32-bit LAN coprocessor
- On-chip DMA, FIFO's, and memory management
- Conforms to IEEE 802.3
- AUI interface connector via cable off front panel
- 800 Kbytes/sec throughput obtained using TCP/IP protocol

FRONT PANEL

- Reset / Interrupt switch
- LED display
- Ethernet port connector
- Serial port connector

TIMERS/COUNTERS

- Real-time clock with 10 msec resolution
- Three 32-bit timer/counters with 62.5 nsec resolution
- Interrupt capability

board support

SOFTWARE SUPPORT

- Wind River Systems' VxWorks™ real-time OS and development environment
- ISI's pSOS™ real-time OS and development environment
- On-board monitor and power-on diagnostics

PHYSICAL CHARACTERISTICS

- Multilayer with ground and VCC planes
- Board size: 233.5 mm x 160 mm (9.19 in. x 6.3 in.)
- Power requirements*:
+5VDC @ 5.8 A,
+12VDC @ 50mA,
-12VDC @ 30mA
- Storage Temperature: -40°C to 85°C
- Operating range: 0° -55°C,
95% relative humidity (non-condensing)
- CE compliant

target applications

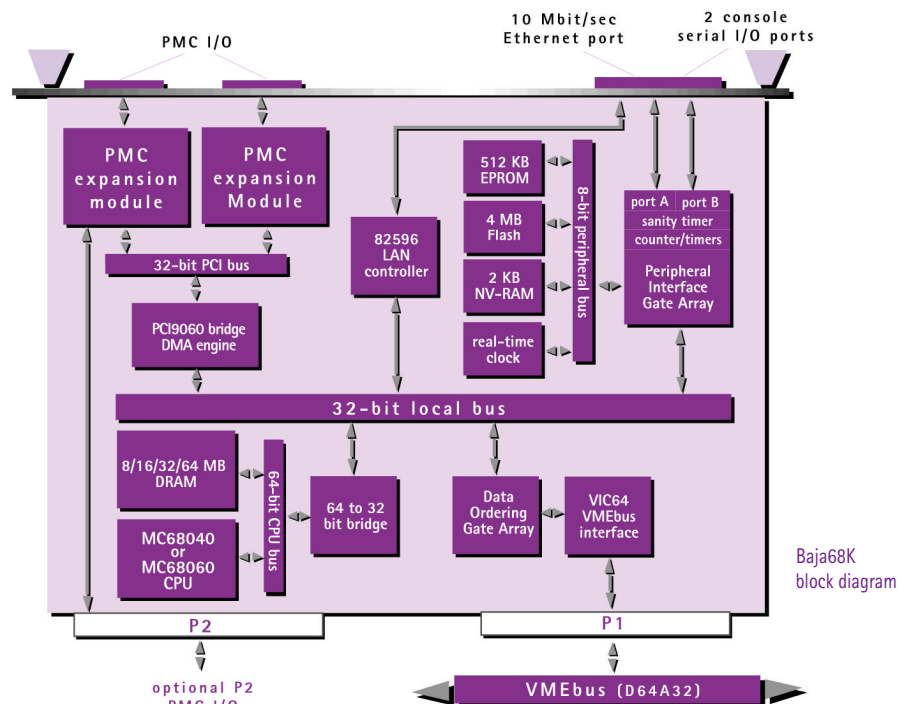
- Telecommunications Switch
- IN Switching
- Network Control
- LAN/WAN Bridge
- Video on demand server

* Power measured on 16MB board with no PMC modules and no Ethernet transceiver



Artesyn Communication Products, Inc.
8310 Excelsior Drive
Madison, WI 53717-1935
voice: 608-831-5500 or
800-356-9602
fax: 608-831-4249
email: cpinfo@artesy.com
web: www.artesy.com/cp

© 1998 Artesyn Communication Products, Inc. All other trademarks are property of their respective owners. Specifications subject to change without notice.



Baja68K block diagram



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com

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

Artisan Scientific Corporation / Artisan Technology Group is not an authorized distributor of Artesyn Embedded Technologies, Inc. or Artesyn products. Artesyn Embedded Technologies® is a trademark of Artesyn Embedded Technologies, Inc. and is used for identification purposes only.

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins

www.artisanng.com/WeBuyEquipment

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com for more information on price quotations, drivers, technical specifications, manuals, and documentation