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 *Emerson / Heurikon HK68 / V4F* at our website: *Click HERE*

COMPUTER PRODUCTS
Heurikon Corporation
Powerful Products for Communications

V4F Technical Specs

Bus Interface

- **VMEbus**
- VMEbus architecture with 32-bit data path, 32-bit addressing and 7 bus interrupts
- Operates in Master or Slave Mode (Compliance Level: D32A32(7))
- System level controller functions including 4 level arbitration
- VMEbus priority or round-robin arbiter
- Uses VIC068 VME Interface Chip providing "MOVEM" type block transfer rates of 9 Mbytes/sec read, 7 Mbytes/sec write

- **VSB**
- 32-bit multiplexed address/data bus, master/slave mode, arbiter
- Transfer rates of 9.45 Mbytes/sec for block reads
- Transfer rates of 9.65 Mbytes/sec for block writes

- **Mailbox interrupts**
- Allows remote control of V4F via specified VMEbus addresses
- CPU interrupt, reset and VMEbus lock functions supported

- **Corebus**
- Mezzanine bus providing migration path for board customization
- 32-bit address bus; 32-bit data bus
- Multimaster Module Synchronous Bus for intelligent modules operating at speeds synchronous with CPU clock, 106 Mbytes/sec 4 word burst transfers @ 33 MHz
- Asynchronous Module Peripheral Bus for simple, low speed I/O and module configuration

---

Processor & Memory Options

- **MC68040**
- Operates at 33 MHz
- 4 Kbyte on-chip instruction cache
- 4 Kbyte on-chip data cache
- Paged memory management unit (MMU) with dual 64-entry, 4-way, set associative translation lookaside buffers
- Sustained performance of 13.5 VAX MIPS and 3.6 MFLOPS
- Implements IEEE-P754 binary floating point standard

- **Random Access Memory**
- 8 or 16 Mbytes DRAM with parity on-card
- 2 bank interleaved architecture with write posting buffers
- 70 ns page mode DRAM

- One parity bit per byte
- Transparent discrete hardware refresh

- **Read Only Memory**
- Up to 1 Mbyte capacity via two 32-pin sockets
- Supports 64K, 128K, 256K, and 512K x 8 EPROMs

- **Non-Volatile RAM**
- 8 Kbytes programmable EEPROM (6 Kbytes available to user)
- User-definable parameters such as default baud rates, software and hardware revision levels, and system configuration information
- 10 ms store cycle
- 100 year retention
- 10,000 store cycle lifetime

- **Timers/Counters**
- Real-time clock
- Two 16-bit timer/counters

Peripheral I/O

- **Serial I/O**
- Two front panel serial I/O ports provided via enhanced Z85C30 SCC chip
- Internal software controlled baud rage generator for each port
- RS-232-C standard
- Transfer rates up to 76.8 Kbaud asynchronous with 80 ft. cable
- 1 Mbyte/sec asynchronous with 6 ft. cable
- 2 Mbytes/sec synchronous with 6 ft. cable

- **Configuration Options**
- SCSI and Ethernet interfaces available via Corebus mezzanine module

---

Software support

- Wind River Systems' VxWorks(TM) real-time operating system and development environment
- Microware's OS-9(TM) real-time operating system
- Third party support including Microtec Research's VRTXvelocity(TM) and ISI's pSOS+(TM)

Physical Characteristics

- Multilayer with ground and VCC planes
- Board size: 23.35 cm x 16.0 cm (9.19 in. x 6.3 in.)
- Power requirements: +5VDC @ 4.5A, +12VDC @ 50mA,-12VDC @ 50 mA
- Operating range: 0&degree; - 55&degree;C, 85% relative humidity (non-condensing)

- **Front Panel**
- Serial connectors
- SYSFAIL, HALT, and Alternate Master LEDs

- Reset switch
- Front panel interface with Reset and 4 user-programmable TTL outputs (10-pin high density connector)

Target Applications

- Graphics-oriented applications such as simulation, image processing and printing
- Data acquisition
- Machine vision
- Embedded control
- Custom design foundation

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