



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 ↗

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

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

Model 504V

VME Data Distribution & Host Interface

Merges eight PCM frame synchronizers, IRIG time port, and analog-to-digital port

Distributes ID-tagged data to four high speed data streams

Provides for up to 64K unique ID tags

Provides for eight devices on the Device Output Bus

Host DMA channel routes processed data to memory or networking devices

DMA supports continuous block transfers of up to 64K 32-bit words

VME compatible 6U card



The Model 504V is the Data Distribution Interface, and is a core card of a TDP system. This card contains the data FIFO and the VME BUS DMA Interface, and contains the data token distribution system that is programmed to control each measurement in the data stream. It merges up to eight PCM frame synchronizers, IRIG time port and analog-to-digital port.

The card has a Current Value Table that captures data passing through the system, and contains 128K 32-bit words of algorithm program memory. The Distribution Interface usually requires a Model 505V VME Programmable Data Stream Processor to process the data.

ACROAMATICS

TELEMETRY SYSTEMS

5385 HOLLISTER AVE. BLDG.5 SANTA BARBARA CALIFORNIA 93111-2365
805-967-9909 www.acroamatics.com

Model 504V VME Data Distribution & Host Interface

FEATURES

Input Bus

The Distribution System interfaces eight possible PCM frame synchronizers, an IRIG time port, and an analog-to-digital port. Two 32-bit words are multiplexed onto the bus and are queued to the Distribution System. The first word is the identifier that contains fine time, status, stream identification, and ID tag. The second word contains the data. The Distribution System supports up to 128k unique ID tags.

Distribution System

The Distribution System contains up to 256k 32-bit words of high speed static RAM. The ID tag accompanying each data sample addresses the lower 128k block of memory. The content of the word addressed by the tag is called the vector and points to the start of the processing table located in the upper 64k (256k optional) of memory. The processing table specifies the data stream processor, the algorithm to be performed, parameters required to process the raw input, and the final destination. The ID, data, and processing instructions are transmitted to four possible data stream processors across the bi-directional, 32-bit Distribution Bus.

Device Bus

Each stream processor performs a comprehensive set of algorithms for processing both floating point and integer data. The results of this processing are placed on the Device Bus. The Device Bus interfaces output devices such as: digital-to-analog outputs, digital discrete outputs, a feedback port to the Distribution input, and a VME Host DMA channel. The Device Bus supports up to eight output devices.

Host Interface

The Host Interface provides controls for single stepping and running the Distribution System and 505V Programmable Data Stream Processors, as well as outputting and receiving data on the Device Bus. The Host DMA channel provides a data path where processed data may be routed to memory and networking devices residing on the VME bus. The DMA circuitry includes bus master logic that supports continuous transfers of up to 64K 32-bit words.

GENERAL SPECIFICATIONS

| | |
|-------------------------|---|
| Input Bus | Bandwidth 4M ID/Data samples per second, or 8M 32-bit words per second |
| Distribution Throughput | 4M ID/Data samples per second without processing 2.6M ID/Data samples per second requiring processing |
| Device Bus Bandwidth | 4M 16-bit data transfers per second |
| DMA Access Time | 166ns from bus grant to falling edge of data strobe |
| DMA Recovery Time | 115ns from rising edge of data acknowledge to data strobe falling |

PHYSICAL

| | |
|----------------------|---|
| Format | Single Slot 6U VME |
| Cooling Requirements | 30 Linear FPM |
| Power Requirements | +5VDC at 3 Amps |
| Temperature | Operating: 0° to +40° C, Non-Operating: -40° to +86° C |
| Relative Humidity | Up to 90% non-condensing |
| Shock | Operating: 6G, Non-Operating: 50G |
| Vibration | Operating: 0.5G, 5 to 2000Hz, Non-Operating: 1.2G, 5 to 500Hz |

Specifications subject to change without notice



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 ↗

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

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