

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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Full-service, independent repair center
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We buy your excess, underutilized, and idle equipment
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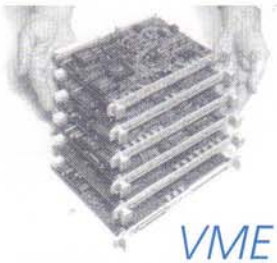
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- ITAR-certified secure asset solutions

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VME
SYSTEMS PRODUCTS

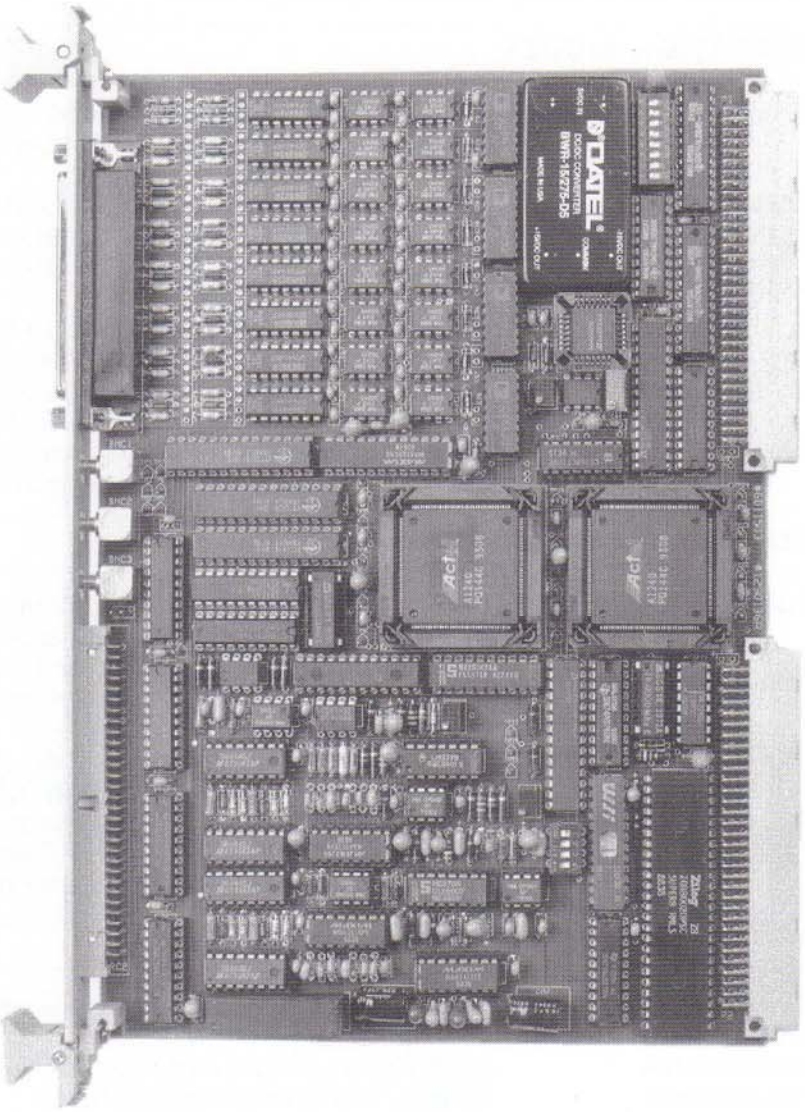
MODEL 503V

Time Code Generator/Translator with optional A-to-D Converter

- *Generates/Translates IRIG time codes A, B, &G*
- *Resolves time to microseconds*
- *Simultaneous time code generation and translation*
- *Translate Carrier mode*
- *Translate Failsafe mode*
- *Slow Code output*
- *BCD time-of-year available to VME host*

Optional A-to-D Converter:

- *12-bit conversion*
- *16 inputs, expandable to 32 inputs*
- *Sampling rates to 500,000Hz*
- *Single-ended or Differential Common mode*



ACROAMATICS

TELEMETRY SYSTEMS

70 SOUTH KELLOGG, SUITE A, GOLETA, CALIFORNIA 93117-3476 (805) 967-9909
www.acroamatics.com

MODEL 503V TIME CODE TRANSLATOR/GENERATOR

INPUT:

Amplitude	0.5 to 20 Vpp, Single-ended
Impedance	12K Ohms minimum
Input Codes	Translates IRIG A, B, and G
Input Frequency	125Hz to 400,000Hz
Modulation Index	2:1 through 5:1
Polarity	Program selectable: Normal or Invert
Leap Year	Selectable leap year enable resets days to 1 after 366
Internal Time Base	20MHz crystal oscillator

OPERATION MODES:

Generate	Time is generated from onboard crystal oscillator and is presettable from VME Host. Program selectable translation multiples of 4, 2, 1, 1/2, and 1/4 realtime.
Translate	Time is read from an external source.
Translate Carrier	Internal timing is based on input carrier, enabling the system to translate time as the input carrier rate varies during the playback of an analog recording.
Translate Failsafe	Internal timing is phase-locked to the input carrier. In the event of time dropout, translator continues generating time without interruption. Time is resolved to microseconds for input code formats. Program selectable time translation multiples of 4, 2, 1, 1/2, and 1/4 realtime.
Frame Bypass	Automatic frame bypass compares previous time frame with current time frame and updates time accumulator when they agree.

OUTPUT:

Parallel Time	BCD time-of-year, days through microseconds, supplied to VME Host and telemetry hardware. Time and status information are captured and supplied to the VME bus as four 16-bit words. Two 32-bit packed time messages are delivered to the telemetry hardware at one second and one millisecond intervals.
Generator Output	Program selectable IRIG time codes A, B, and G. ±2.5V balanced output, 10mA drive current, Modulation Index 3:1
Slow Code Output	Bi-Level, BCD encoded time-of-year format. Four selectable frame rates: 1 sec, 5 sec, 10 sec, and 1 min. Output levels: baseline=0.5V, zero mark=2.5V, reference mark or one mark=4.8V.

ANALOG TO DIGITAL INPUT (OPTIONAL):

Sources	Sixteen inputs with option for sixteen additional (32 inputs total).
Amplitude	±10V peak-to-peak full scale.
Impedance	100K Ohms, Single-ended or Differential Common-mode
Resolution	12-bits, two's-complement output
Accuracy	±0.25% of full scale
Nonlinearity	±1 LSB, or 0.025% of full scale
Sampling Rate	Individually programmable: 50Hz to 500,000Hz

REQUIREMENTS:

Power	+5VDC at 1.5 Amps
Temperature	Operating: 0 to +40°C, Non-operating: -40 to +86°C
Relative Humidity	Up to 90%, non-condensing
Air Flow	30 Linear FPM
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 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.

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