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The Wayback Machine - https://web.archive.org/web/20180223044609/http://www.acroamatics.com:80/products/Model_503V.htm

Model 503V VME Time Code Translator/Generator

Product Support



- 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 conversion**

• 12-bit conversion
• 16 inputs, expandable to 32 inputs
• Single-ended or Differential Common mode

User's Manual
Technical Manual
Program Manual
Datasheet
Technical Specs
Software & Drivers

Overview

The Model 503V Time Code Translator/Generator accepts IRIG A, B, or G code directly so that a system can be configured without the need for an external translator unit. When installed in a Model 2220V//2220V TDP, it also serves as the IRIG A, B or G time source (in generate mode), and generates it's own digital time base for data annotation. The 503V can operate independently as a VME based Translator/Generator. Time-of-Year can be read from VME bus accessible registers. All Acroamatics documentation is supplied on CD-ROM.

Technical Specs

INPUT	
Amplitude	0.5 to 20Vpp, Single-eneded
Impedance	12K Ohms minimum
Input Codes	Translates IRIG A, B, and G
Input Frequency	12.5Hz 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
OPERATIONAL MODES	
Generate	Time is generated from onbaord crystal oscillator and is presettable from VME Host. Program selectable 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 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.
Frame Bypass	Automatic frame bypass compares previous time frame with current time frame and updates time accumulator when they agree.
OUTPUT	
Parrallel Time	BCD time-of-year, days through microseconds, supplied to VME Host and telemetry hardware. Time and status information are captured and suppiled to the VME bus as four 16-bit words. Two 32-bit packed time massages 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 sisteen 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	±LSB, or 0.025% of full scale
Sampling Rate	Individually programmable: 50Hz to 500,000Hz
PHYSICAL	
Format	Single Slot 6U VME
Cooling Requirements	30 Linear FPM
Power Requirements	+5VDC at 1.25 Amp
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	

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