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Find the *Acroamatics Telemetry Systems 500V* at our website: ***Click HERE***

Model 500V

VME Programmable PCM/PAM Simulator

Generates complex formats with dynamic varying data and subframe capability

Performs asynchronous frame insertion and format switching

Eight dynamic and 1024 static data sources

Tunable from 1 to 25Mbps

Programmable 1 to 32 bit word length

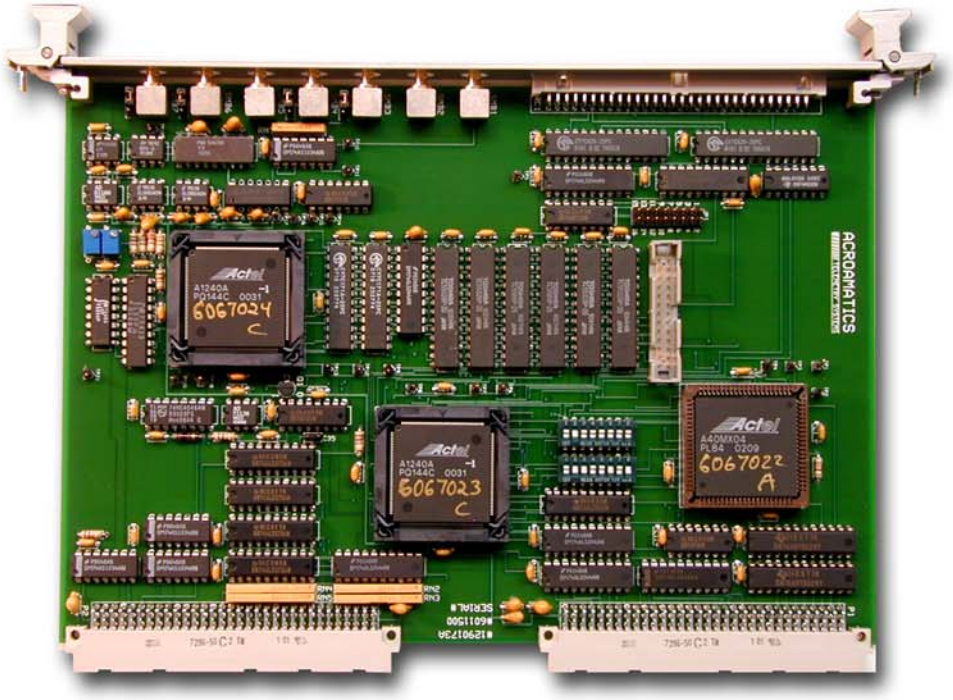
Programmable MSB/LSB word orientation

Selectable parity generation

Generates all IRIG standard and ramomized PCM codes

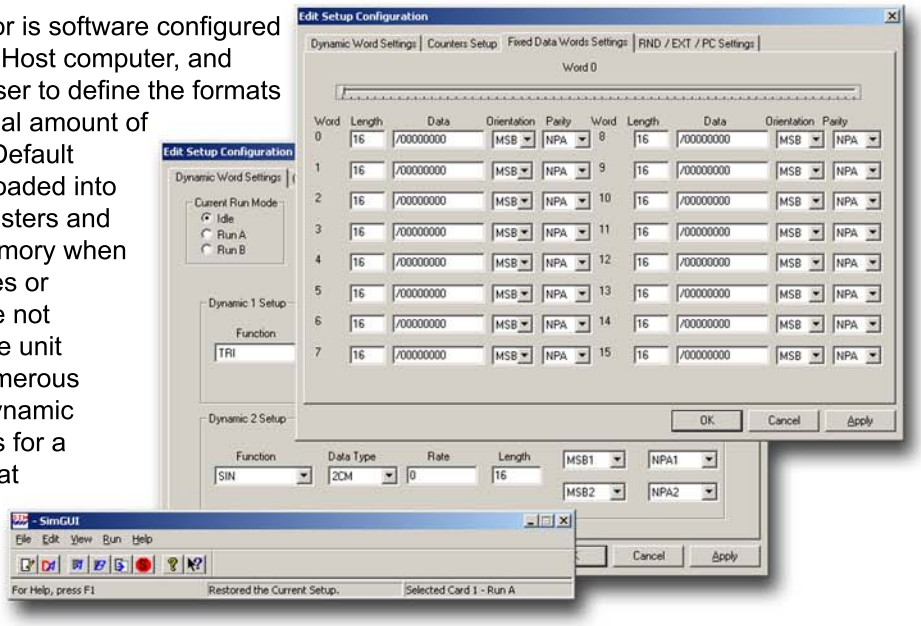
An onboard analog-to-digital converter generates simulated PAM signals

Standalone, VME compatible 6U card



The Model 500V PCM/PAM Format Simulator is a stand-alone, VME compatible, 6U board that simulates PCM and PAM telemetry data streams. The simulator can generate complex PCM/PAM formats, which contain dynamically varying data, as well as multiple subframe structures.

The simulator is software configured from a VME Host computer, and allows the user to define the formats with a minimal amount of description.Default entries are loaded into the data registers and program memory when certain values or functions are not specified.The unit provides numerous static and dynamic data sources for a flexible format generation.



ACROAMATICS

TELEMETRY SYSTEMS

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805-967-9909 www.acroamatics.com

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Model 500V VME Programmable PCM/PAM Format Simulator

FUNCTION

Bit Rate	1Hz to 25MHz, Tunable to 0.1% of programmed rate
Data Sources	1024 Static Registers Two User-Defined Dynamic Data Memories Two 16-bit Modulo Up/Down Counters Two 16-bit External Inputs 16-bit Pseudo-Random Generator 16-bit Program Counter
Word Lengths	Programmable for each data source Static data words range from 1 to 32 bits All other data sources range from 1 to 16 bits
Word Orientation	Programmable MSB/LSB for each data word
Parity Generation	Selectable odd/even, leading, trailing or no parity for each data word
Dynamic Data Memory	2K RAM, Presettable to ramp, sine, triangle or square wave functions, or user-defined input. Selectable data type: 1's Comp., 2's Comp., Sign Mag. and Off. Binary. Programmable time base.

CAPABILITY

Format Storage	Stores two complete, selectable PCM formats Performs asynchronous frame insertion and format switching
Subframe Capability	Generates up to three subframes within the mainframe Subframe can be generated within a subframe
Frame Length	Maximum of 4096 words for each mainframe and subframe

OUTPUT

Clock	0° Clock, TTL Compatible Two outputs are available from front panel Six outputs are available from P2 Connector
Data	NRZ-L Data, TTL Compatible Two outputs are available from front panel Six outputs are available from P2 Connector
PAM Output	±2.5 Volts balanced output, 10mA drive current
PCM Output	±2 Volts balanced output, 40mA drive current Two outputs are available from front panel Four outputs are available from P2 Connector
Output Code Type	Sixteen selectable output codes: NRZ-L/M/S, Bi φ-L/M/S,DBi φ-M/S, DM-M/S, MDM-M/S, RNRZ 11, 15, 17 and 23

PHYSICAL

Format	Single slot 6U VME
Power Requirements	+5VDC at 1 Amp, +12VDC at 300 mA, -12VDC at 100 mA
Cooling Requirements	30 Linear FPM
Temperature	Operating: 0º to +40º C, Non-Operating: -40º to +86º 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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