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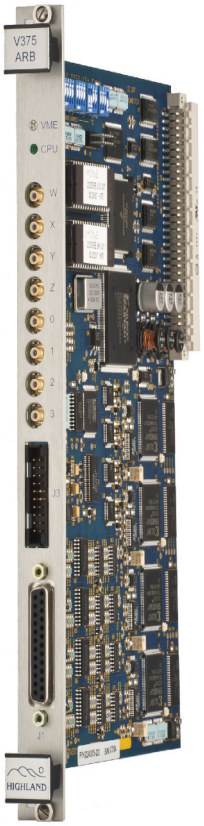
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Find the *Highland Technology V375* at our website: ***Click HERE***

HIGHLAND TECHNOLOGY

V375 arbitrary waveform generator

Features



- 4 independent direct digital synthesizer (DDS) frequency sources allow smooth variation of waveform scan rates without requiring table reloads
- 4 versatile, memory-table-driven waveform generators scan up to 65,536 discrete points per waveform at up to 15 MHz point step rate
- 16-bit amplitude resolution; 32-bit frequency resolution
- Per-channel divisors allow simulation of fractional "gear-ratio" waveshapes
- Output frequency, amplitude, phase, and DC offset are smoothly variable in real time
- Output stage analog summing allows mixing of up to four programmed waveforms and one external analog input
- Versatile wave memory partitioning allows waveform read/write operations concurrent with wave generation, so multiple waveforms can be loaded and selected in real time
- Programmable waveform jump and triggered burst capability
- Channels may be synchronized within a module or across multiple modules
- Programmable lowpass filters are provided to smooth discrete sample points
- Continuous-play (non-repetitive waveform) modes available
- Onboard microprocessor performs macro commands: Fourier synthesis, pulse train generation, sweeping, and test functions

The V375 is a versatile VME four-channel arbitrary waveform generator. The module architecture was designed in cooperation with major aircraft engine and power systems manufacturers to provide the features needed for accurate simulation of real-world sensor inputs.

The module is ideal for:

- simulation of sensor signals from complex rotating machines
- generation of pure and distorted polyphase AC waveforms, with all waveshape parameters (frequency, amplitude, phase, distortion components) smoothly variable in real time
- generation of complex pulse trains with realtime control of relative pulse positions and amplitudes
- shake table, servo, or actuator drive

The V375 builds on the success of its predecessor, the V370, by extending the output bandwidth to 300 kHz and adding four inputs for user waveforms to sum into the channel outputs. A new burst mode allows software or external input to trigger generation of one or more waveform cycles.

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Specifications : V375 arbitrary waveform generator

FUNCTION	4-channel waveform synthesis VME module
DEVICE TYPE	16-bit VME register-based slave: A24:A16:D16 Implements 256 16-bit registers at switch-selectable addresses in the VME 16- or 24-bit addressing spaces
OUTPUTS	Four channels of arbitrary waveform output, ±10 volts max, 50Ω output impedance, 100 mA max Bandwidth 175 KHz full power, 300 KHz at 5 volts p-p; slew rate 6 volts/µs typical Amplitude accuracy ±2% Four TTL-level sync/logic output pulses
RESOLUTION	16 bits amplitude, 32 bits frequency
INPUTS	Four TTL-level auxiliary logic inputs Four analog summing inputs
WAVE MEMORY	64k x 16 bits per channel
FREQUENCY SYNTHESIZERS	Four direct-digital frequency synthesizers step through waveform memory; 15 MHz max, 0.0093 Hz resolution, ±0.005% accuracy
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
CALIBRATION INTERVAL	One year
POWER	Standard VME supplies : +5 volts, 900 mA nominal +12 volts, 100 mA nominal plus load current -12 volts, 150 mA nominal plus load current
CONNECTORS	D25 female connector for signal outputs SMB test connectors for outputs and syncs
INDICATORS	LEDs indicate processor heartbeat and VME access
PACKAGING	Single-wide 6U VME module
CONFORMANCE	ANSI/VITA 1-1994 (R2002) VMEbus spec; does not support byte writes

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