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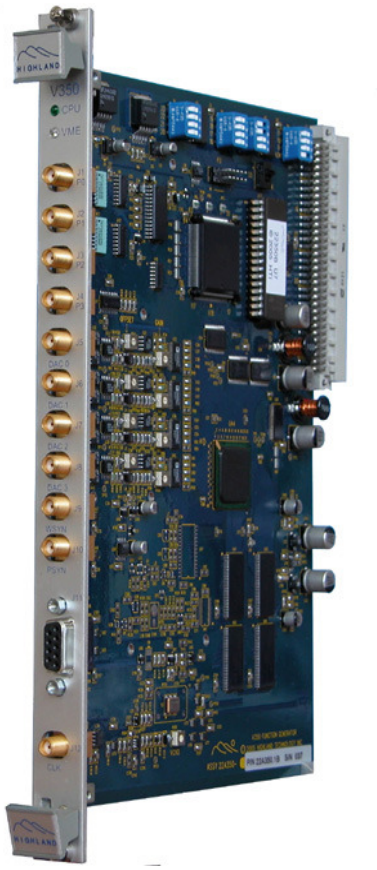
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Find the *Highland Technology V350* at our website: ***Click HERE***

HIGHLAND TECHNOLOGY

V350 analog and digital pattern generator

Features



- 4 analog + digital waveform generators
- Command-table driven architecture
- 1 Mword memory per channel
- 40 MHz clock
- Synchronous or independent channel operation
- Self-test and demo modes
- Ideal for radar and sonar simulation
- HUD Vector character generator version available

The V350 is a 4-channel VME analog/digital function generator that generates arbitrary waveshapes synchronized with logic-level outputs, as might be used in control systems or radar simulation, or other COTS applications.

Each V350 channel generates one 12-bit analog waveform and up to four digital outputs by scanning sequential data points stored in user-loadable memory. Outputs are processed by digital-to-analog converters, smoothing filters, and output amplifiers.

Output stage multiplexing allows flexible configuration, and channels may operate independently or may be synchronized within a module or across modules.

Control and waveform generation operate at full 40-MHz rate or programmed sub-multiples. An option allows waveform generation synchronous to an external trigger without the jitter resulting from quantization to the local clock.

Each channel has 1 Mword of waveform memory controlled through a 512-block command table that includes Play, Delay, Wait, and Stop commands, conditional jump, and flag control.

Self-test and Demo modes allow quick evaluation and verification.

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Specifications : V350 analog and digital pattern generator

FUNCTION	4-channel analog/digital waveform synthesis VME module
DEVICE TYPE	16-bit VME register-based slave: A24:A16:D16 Implements 128 16-bit registers at switch-selectable addresses in the VME 16- or 24-bit addressing spaces
OUTPUTS	Four channels of arbitrary waveform output, 0:10 volts max, 50Ω output impedance, 100 mA max Bandwidth 300-KHz full power min Four TTL-level pulse outputs TTL-level waveform sync and pulse sync outputs
INPUTS	One 10-MHz clock input/output Four TTL-level logic inputs
WAVE MEMORY	1M x 16 bits per channel (12 DAC bits, four digital bits)
ACCURACY	Amplitude ±1% Frequency ±1 PPM, lockable to external 10 MHz reference
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
CALIBRATION INTERVAL	One year
POWER	Standard VME supplies: +5 volts, 1.75 A max +12 volts, 200 mA max (plus load current) -12 volts, 100 mA max
CONNECTORS	SMA female connectors for waveform outputs, pulse outputs, clock D9 female for two sync outputs and four logic inputs
INDICATORS	LEDs indicate processor heartbeat and VME access
PACKAGING	6U single-wide VME module
CONFORMANCE	VMEbus per ANSI/VITA 1-1994 (R2002)

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