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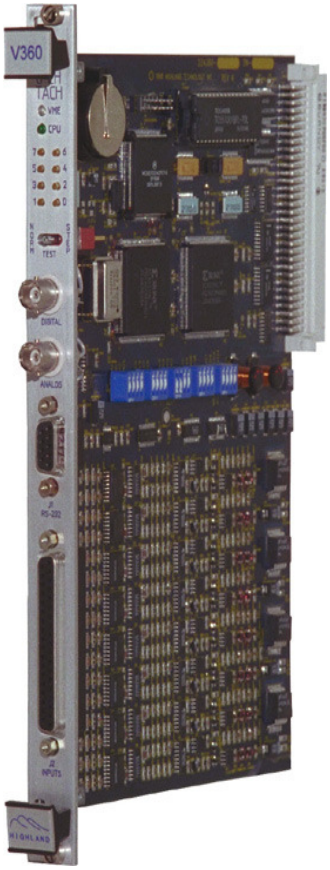
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HIGHLAND TECHNOLOGY

V360 tachometer module

Features



- Intelligent 8-channel period/frequency/RPM measurement module
- Ideal for signal conditioning of magnetic speed pickups, flowmeters, and encoders
- High noise immunity ensures accurate measurement in industrial environments
- Internal signal conditioning accepts direct input from common speed sensors
- Register-based 16-bit VME module
- Clean, simple architecture simplifies programming

The V360 is a single-width, 6U height VME module designed specifically to acquire low frequency inputs from industrial speed sensors. The module can measure frequency and period over a wide dynamic range, and is specifically designed to ensure reliable measurement in high-noise industrial environments.

Differential signal inputs are signal conditioned, filtered and presented to the inputs of a custom gate array chip which manages period and frequency measurement. An on-board microprocessor periodically reads the timer chip, checks and scales data, and loads measured values into a dual-port memory interfaced to the VME bus. The input signal conditioners can be connected directly to common transducer types, including:

- Variable reluctance or hall-effect magnetic speed pickups
- AC line voltage or alternator windings up to 150 volts RMS
- Optical pickups
- Reed-switch or signal-conditioned fuel flow meters
- Contact closures or other special levels

18 Otis Street San Francisco, CA www.HighlandTechnology.com tel: 415 551-1700 fax: 415 551-5129

Specifications : V360 tachometer module

FUNCTION	8-channel signal conditioner/tachometer module
DEVICE TYPE	16-bit VME register-based slave: A24:A16:D16:D08(EO) Implements 32 16-bit registers at switch selectable addresses in the VME 16 or 24 bit addressing spaces
INPUTS	Eight channels, numbered 0 through 7 Each channel has differential inputs, ground, and auxiliary +12 volt source Input impedance is > 60 K to ground on differential inputs Signal level inputs are configurable for standard TTL, open collector, AC generator, and variable reluctance sensor pickups Onboard signal conditioning includes VME-selectable gains, filtering/integration, and trigger levels to accept 10 mV to 150 volt RMS signals up to 100 kHz Inputs will tolerate 1000 volt transients for 50 µs
RANGE	32 bit period measurement with 20 ns LSB resolution, approximately 85 seconds maximum period Transparent interlock logic allows skew-free reading of 32-bit period data
ACCURACY	±0.005% ±1 LSB
RS-232 PORT	9600 baud RS-232 port is provided This provides for monitoring of module performance and permits channel configuration without requiring host CPU programming
OPERATING TEMPERATURE	0 to 60°C; MIL/COTS ranges available
CALIBRATION INTERVAL	One year
POWER	Standard VME supplies: +5 V: 0.5 A +12 V: 0.2 A -12 V: 0.15 A
CONNECTORS	D37 female connector for signal inputs and current-limited +12 volt excitation outputs D9 female connector for RS-232 serial port Two BNC signal monitor connectors present analog and digital signal levels of any selected channel
INDICATORS	Ten LEDs indicate processor heartbeat, VME access, and individual channel trigger activity
PACKAGING	6U single-wide VME module
CONFORMANCE	VMEbus per ANSI/VITA 1-1994 (R2002)

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