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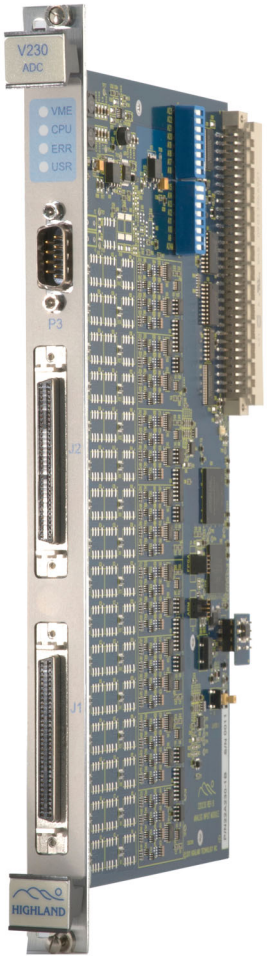
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HIGHLAND TECHNOLOGY

V230 64-channel VME analog input module

Features

- Multiplexed, 64-channel differential A/D converter
- Each channel is independently programmable for input range and digital lowpass filtering
- Input ranges of ± 102.4 mV, ± 1.024 volts, and ± 10.24 volts with 16-bit resolution
- Common-mode rejection 80 dB typ, ± 12 volt common-mode range
- Overload protected to ± 30 volts on all ranges
- 15.625 KHz sample rate per channel, 1M s/s total
- Programmable 200 Hz and 17 Hz filters. The 17 Hz filter notches 50/60 Hz and all harmonics
- No realtime handshaking is required. Once channel parameters are set up, measurements appear in dual-port memory registers with VMEbus-speed access. Users can read digitized data at any time.
- Optional test connector supports in-crate calibration check
- Clearly labeled dipswitches set VME address; no jumpers, headers, or trimpots
- Optional built-in self-test (BIST)



The V230 provides high channel-count data acquisition for dense monitoring applications. The 64 channels are individually programmable for both input range and filtering. The three input ranges slightly exceed ±10 V, ±1 V, and ±100 mV, allowing confident measurements all the way to the end of common signaling ranges. For low frequency applications, the programmable $sinc^2$ lowpass filters provide excellent rejection of 50 Hz and 60 Hz harmonics without generating transient overshoots.

From the moment of power-on, with no configuration, the V230 begins scanning all 64 differential input channels and posting the results to VME memory space. Data is presented in real-time as a simple array of 64 values with no handshakes, interrupts, or driver calls required.

Optional built-in self-test provides an on-board voltage source that can be switched into any of the channels for verification, as well as the D9 OpenCal bus to allow verification against external equipment without disconnecting field-wiring connectors.

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Specifications : V230 64-channel VME analog input module

FUNCTION	64-channel differential analog-to-digital converter
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
CHANNELS	64, fully differential
RANGES	Programmable per channel ±102.4 mV ±1.024 V ±10.24 V
RESOLUTION	16 bits, 3.125 µV on 102.4 mV range
SAMPLE RATE	Fast mode: 15.625 ksps/channel Slow mode: 976.56 sps/channel
INPUT IMPEDANCE	2 MΩ min, either input to ground
INPUT COMPLIANCE	± 12V either input to ground
ACCURACY[1]	± 10.24 V range: ± 5 mV ± 1.024 V range: ± 0.5 mV ± 102.4 mV range: ± 0.3 mV
CMRR	80 dB typical
FILTERING	Programmable per channel: none, 200 Hz Bessel lowpass filter, or 17 Hz sinc^2 filter with notches at 50/60 Hz and harmonics
PROTECTION	± 30 volts continuous, ± 80 volts for 10 µs, any input to ground
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
CALIBRATION INTERVAL	Two years
POWER	VME supplies : +5 volts, 0.8 amp max +12 volts, 200 mA max -12 volts, 200 mA max
CONNECTORS	Two 68-pin female SCSI connectors (MD68) for channels D9 male for test (not connected on -1 version)
INDICATORS	LEDs indicate VME access, CPU activity, error conditions; additional LED is user programmable
PACKAGING	6U single-wide VME module
CONFORMANCE	ANSI/VITA 1-1994 (R2002) VMEbus spec; does not support byte writes

[1] Accuracy specifications are guaranteed only when adjacent channels are not overloaded. See manual section 5.4 for more information.

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