

I/O

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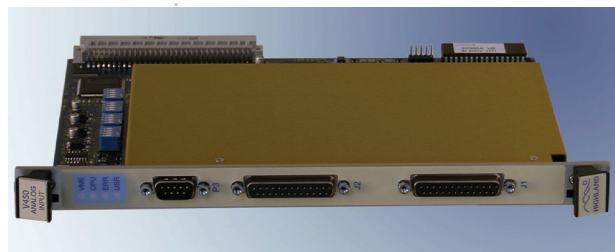
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V450

The V450 is a VME 16-channel isolated analog-to-digital converter module which can acquire a wide range of DC voltages, including thermocouple temperatures. Each channel is independent with an isolated DC power supply, optoisolated interface, A/D converter, signal conditioning, input protection circuits, and test relay.

Each channel may be user-programmed to operate in voltage-input or thermocouple acquisition mode. In each mode, channel operating parameters, acquired measurements, and status flags are accessible in dedicated VME registers. Data rate/filtering options are provided. Data acquisition is managed autonomously by the processor, so VME masters may set channel parameters or read acquired measurements at any time at full VMEbus speed.

VME and Critical Systems Resource Guide 2007



FEATURES

- 16 24-bit channels of fully isolated analog input acquisition, each programmable for mode and input range
- Voltage mode: input ranges from $\pm 25\text{mV}$ to $\pm 250\text{V}$. Thermocouple mode: reports temperatures for common T/C types
- Includes four non-isolated precision RTD signal conditioners, plus one on-board temperature sensor
- Reports thermocouple loop resistance and detects open thermocouples without inducing offset errors
- 24-bit basic ADC resolution. No realtime handshaking required
- Test connector supports in-crate calibration check; optional Built-In Self Test (BIST)

For more information, contact: info@HighlandTechnology.com

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