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HIGHLAND TECHNOLOGY

V250 64-channel VME digital input/output module

Features

- 64 independent channels, each programmable as a digital input or output
- Open-drain outputs can sink loads up to 200 mA and 40 volts
- Inductive-load flyback clamping is included
- Logic-level inputs have programmable thresholds from 0 to +10 volts
- In/Out resistor pull-ups are programmable from 0 to +10 volts
- Programmable input debounce allows direct interface to switches and relay contacts
- Can directly drive LEDs, SSRs, and FET gates
- Clearly labeled dipswitches set VME address; no jumpers, headers, or trimpots



The V250 is a single-wide, 6U VME module that provides 64 non-isolated channels of digital input/output. Each 16-channel bank shares programmable pull-ups and input thresholds with a range of 0 to +10 volts. Open-drain drivers can sink up to 200 milliamps and withstand up to +40 volts. Drivers include flyback clamps, which conduct at +45 volts nominally, to allow low-side drive of relay coils from up to 36 volts. Each channel has a programmable digital debounce with delays of 1 millisecond, 10 milliseconds, and 100 milliseconds.

650 Potrero Ave San Francisco, CA www.HighlandTechnology.com tel: 415 551-1700 fax: 415 551-5129

Specifications : V250 64-channel VME digital input/output module

FUNCTION	64-channel digital input/output 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
OPEN-DRAIN OUTPUTS	Closure to ground, 200 mA max, 40 volts max, 2 Ω typical on resistance Internal Zener clamp outputs to +45 volts nom. (See manual section 5.4)
LOGIC INPUTS	Inputs grouped into four banks of 16 channels. Each bank has programmable threshold of 0 to +10V Nominal 200KΩ impedance to ground, 40V max, 100 µs time constant hardware filtering
PULL-UPS	1 KΩ, each bank has programmable pull-up voltage of 0 to +10 V
DIGITAL DEBOUNCE	Programmable per channel: off, 1 ms, 10 ms, 100 ms
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
STORAGE TEMPERATURE	-40 to 70°C
CALIBRATION INTERVAL	Two years
POWER	Standard VME supplies: + 5 volts, 0.8 amp. max + 12 volts, 0.75 amp. max - 12 volts, 0.75 amp max
CONNECTORS	P1 VME connector Two 68-pin SCSI females, each 32 channels
INDICATORS	LEDs indicate VME access, CPU activity, error conditions Additional LED is user programmable
CONFORMANCE	ANSI/VITA 1-1994 (R2002) VMEbus spec

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