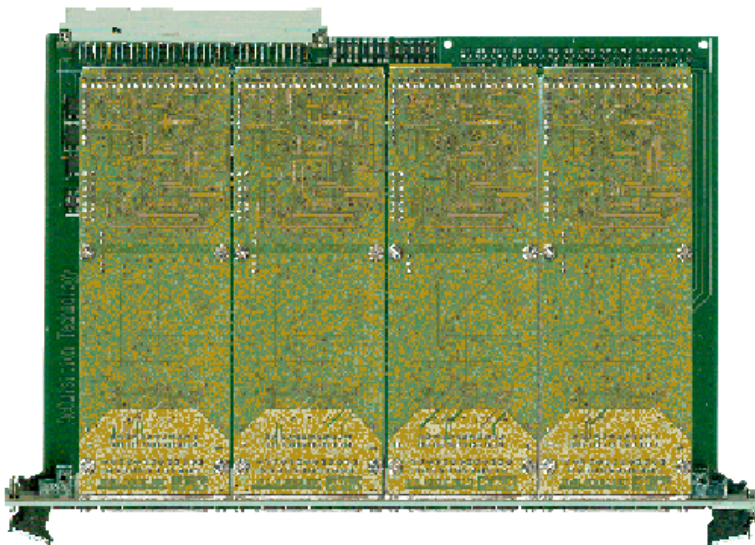


VME390

RTD Measurement for VMEbus



The VME390 features 24 two, three or four wire high-accuracy PT100 measurement channels. Each channel has programmable alarm limits on which an interrupt can be issued. Quad. local DSPs (TMS320C203) perform linearization, auto-calibration and alarm-limit checking. Sensor-data is available in $\frac{1}{2}^{\circ}\text{C}$, $\frac{1}{2}^{\circ}\text{F}$, K and Ohms. All inputs are optically isolated from the system. This VMEbus board has a 6U form and is also available as 3U VMEbus board.

Features:

- > Sigma/Delta ADC with 16-bit resolution
- > Excitation current: 1mA
- > PT100 linearization (IEC751-1983, DIN43760-1980, JIS C1604-1989)
- > Programmable minimum/maximum value alarms
- > Auto calibration
- > No potentiometers
- > Analog front-end is optically isolated
- > On-board DC/DC converter for isolated power supply
- > Data acquisition handled by TMS320C203 DSP, transparent for user
- > Measurement values continuously updated in dual-ported SRAM
- > Measurement range: -200°C .. $+850^{\circ}\text{C}$
- > Up to 7.5Hz output update rate

VMEbus Interface

- * The VMEbus slave interface of the VME390 is compliant with the VMEbus Specification Rev C.1.
- * It supports standard or short addressing (A24/A16), D16/D08(E0) data transfer capabilities and configurable interrupt level (I(x)).

DSP

- * Quad TMS320C203 DSP
- * Quad. Sigma-delta ADC
- * Autonomous scanning
- * Auto calibration
- * 133 ms acquisition time for single channel, each additional channel adds 66 ms.
- * Programmable alarm limits with optional interrupt

Linearization

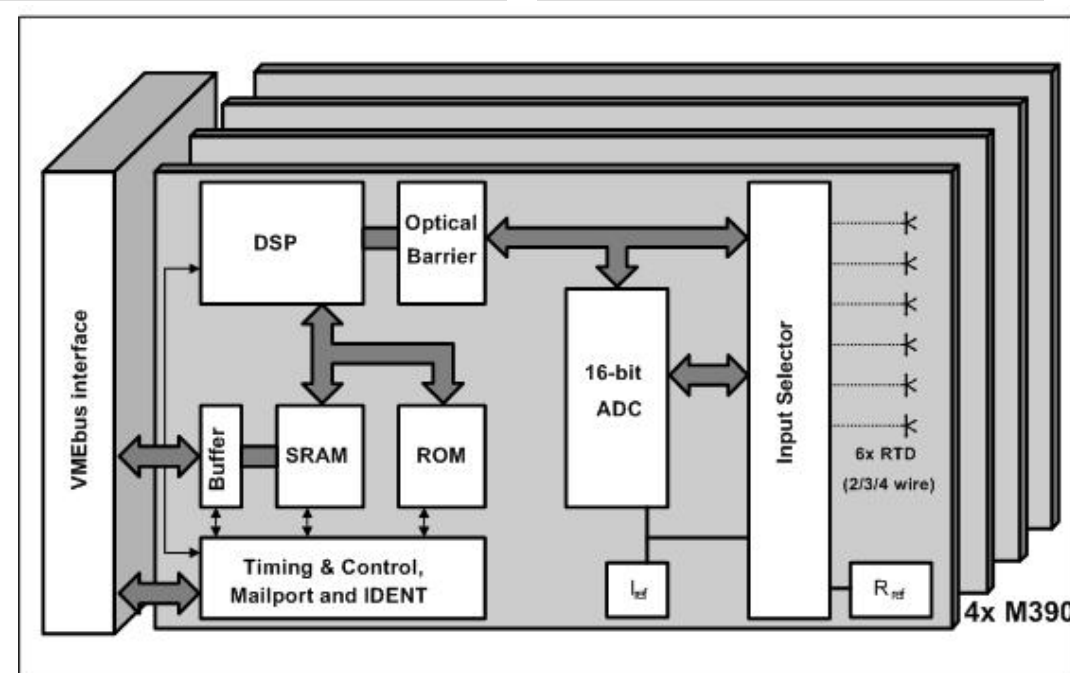
- * Local linearization according to:
- * IEC751-1983
- * DIN43760-1980
- * JISC1604-1989

Input Characteristics

- * Supports 2-, 3-, and 4- wire PT100, PT200, PT500 and PT1000 devices
- * 1mA excitation current per device
- * Optical isolation

Ordering Information

- * **VME1390/T01** 3U 6-channel PT100 precision measurement
- * **VME1390/T02** 3U 6-channel PT200 precision measurement
- * **VME1390/T03** 3U 6-channel PT500 precision measurement
- * **VME1390/T04** 3U 6-channel PT1000 precision measurement
- * **VME390/T01** 6U 24-channel PT100 precision measurement
- * **VME390/T02** 6U 24-channel PT200 precision measurement
- * **VME390/T03** 6U 24-channel PT500 precision measurement
- * **VME390/T04** 6U 24-channel PT1000 precision measurement
- * **VME(1)390/SW** APIS based software
- * **VME(1)390/MAN** manual on paper



AcQ  International

AcQ International BV
Alanenweg 6
5342 PV OSS
The Netherlands

Phone +31 (0)412 64 19 22
Internet www.acq.nl
E-mail info@acq.nl

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