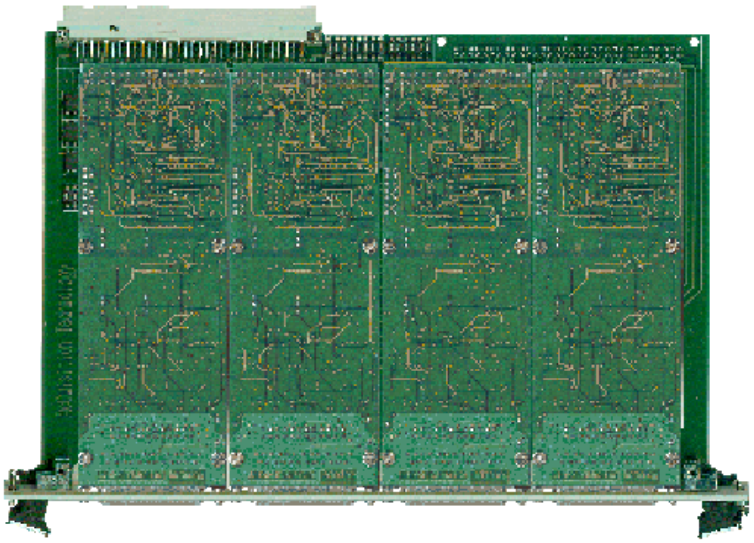
VME393

32 Channel ADC for VMEbus



The VME393 32-Channel Differential Input ADC VMEbus Board is very well suited to be used in applications in which autonomous signal conversion is an issue, as well as in standard mid-range applications. Enabled channels are scanned at maximum rate and conversion results are stored in shared memory. Input channels are grouped into 4 sections of 8 inputs each. Each section features a local DSP which performs all functionality and user specific functions can be added for customized operation.
This VMEbus board has a 6U form and is also available as 3U VMEbus board.

Features:

> 4x 100kSPS ADC with 16-bit or 12-bit resolution
> Channels can be enabled/disabled individually
> No potentiometers
> 32 differential input channels
> On-board filtering with 1kHz cut-off frequency
> Analog front-end is optically isolated
> On-board DC/DC converters for isolated power supply
> Data acquisition handled by 4x TMS320C203 DSPs, transparent for user
> Calibration data stored in EEPROM
> Measurement values continuously updated in dual-ported SRAM
> Update rate up to 50kHz

VMEbus Interface

* The VMEbus slave interface of the VME393 is compliant with the VMEbus Specification Rev C.1.
* It supports standard or short addressing (A24/A16), D16/D08(EO) data transfer capabilities and configurable interrupt level (I(x)).

Input Characteristics

* 32 differential inputs
* Optical isolation
* Uni-polar input range: 0 .. +5V / 0 .. +10V / 0 .. 20mA
* Bi-polar input range: -5V .. +5V / -10V .. +10V
* Input ranges are software programmable
* 2nd order input filter with 1kHz cut-off frequency

Conversion Characteristics

* 12-bit or 16-bit conversion accuracy (see ordering information)
* Typical acquisition time of 10 microseconds per channel
* All enabled channels are converted continuously
* Conversion data can be read from shared memory by host

Local DSP (TMS320C203) performs acquisitions sequences.

* User-specific features (e.g. running average) can be implemented on request

Ordering Information

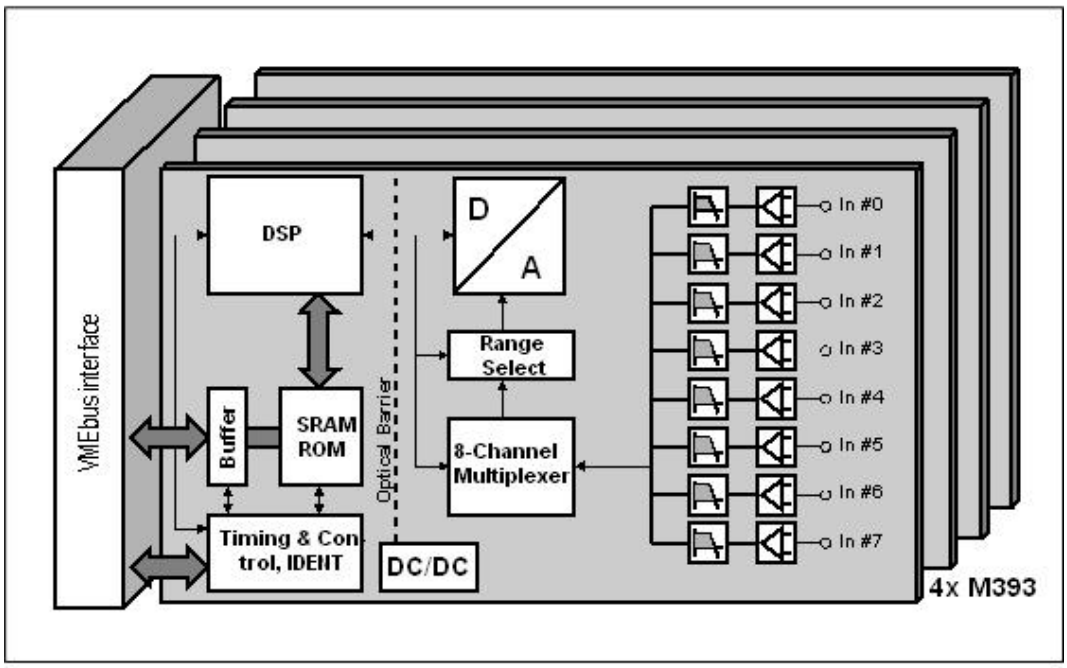
* **VME1393/T04** 3U 8ch analog input, diff. voltage inputs, 12-bit res., no DCDC
* **VME1393/T02** 3U 8ch analog input, diff. voltage inputs, 12-bit res., with DCDC
* **VME1393/T08** 3U 8ch analog input, diff. current inputs, 12-bit res., no DCDC
* **VME1393/T06** 3U 8ch analog input, diff. current inputs, 12-bit res., with DCDC
* **VME1393/T05** 3U 8ch analog input, diff. voltage inputs, 16-bit res., no DCDC
* **VME1393/T03** 3U 8ch analog input, diff. voltage inputs, 16-bit res., with DCDC

Ordering Information

* **VME1393/T09** 3U 8ch analog input, diff. current inputs, 16-bit res., no DCDC
* **VME1393/T07** 3U 8ch analog input, diff. current inputs, 16-bit res., with DCDC
* **VME393/T04** 6U 32ch analog input, diff. voltage inputs, 12-bit res., no DCDC
* **VME393/T02** 6U 32ch analog input, diff. voltage inputs, 12-bit res., with DCDC
* **VME393/T08** 6U 32ch analog input, diff. current inputs, 12-bit res., no DCDC
* **VME393/T06** 6U 32ch analog input, diff. current inputs, 12-bit res., with DCDC

Ordering Information

* **VME393/T05** 6U 32ch analog input, diff. voltage inputs, 16-bit res., no DCDC
* **VME393/T03** 6U 32ch analog input, diff. voltage inputs, 16-bit res., with DCDC
* **VME393/T09** 6U 32ch analog input, diff. current inputs, 16-bit res., no DCDC
* **VME393/T07** 6U 32ch analog input, diff. current inputs, 16-bit res., with DCDC
* **VME(1)393/SW** APIS based software
* **VME(1)393/MAN** manual on paper



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