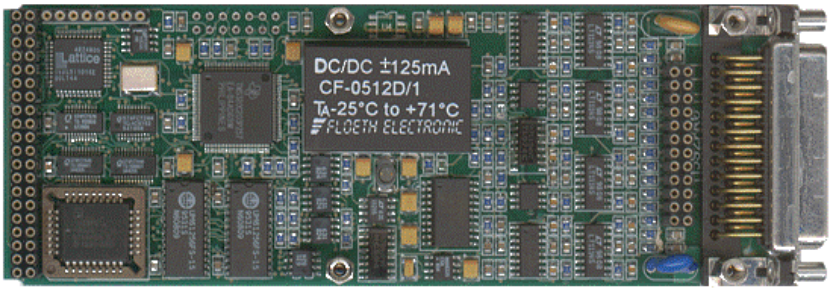
M392

12-/16-bit ADC M-module with 16x Common-Mode Inputs



The M392 16-Channel Common-Mode Input ADC m-module 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. A local TMS320C203 DSP provides processing capabilities to scan all enabled channels at a programmable rate, perform gain/offset compensation and store conversion results in dual ported memory.
The M392 has common-mode voltage inputs. The input range is software programmable which gives great flexibility for applications in data acquisition systems that need to be able to convert a wide variety of analog signals.

Features:

> 100kSPS ADC with 16- or 12-bit resolution
> Software programmable input ranges
> No potentiometers
> 16 common-mode input channels
> Onboard filtering with 1kHz cut-off frequency
> Analog front-end optically isolated
> DC/DC converter for isolated power supply
> Features local TMS320C203 DSP
> Calibration data stored in local EEPROM
> Conversion results continuously updated in dual-ported SRAM
> Up to 50kHz output update rate

M-module Compliancy

* A08/D16 (8-bit address and 16-bit data)
* INTA (software-end-of-interrupt)
* IDENT (identification EEPROM)

Input Characteristics

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

Measurement

* M392 can be fitted to perform either 12- or 16-bit conversion (see ordering information)
* All enabled channels are converted at a programmablerate.
* Conversions results are stored in dual-ported memory

Analog Inputs

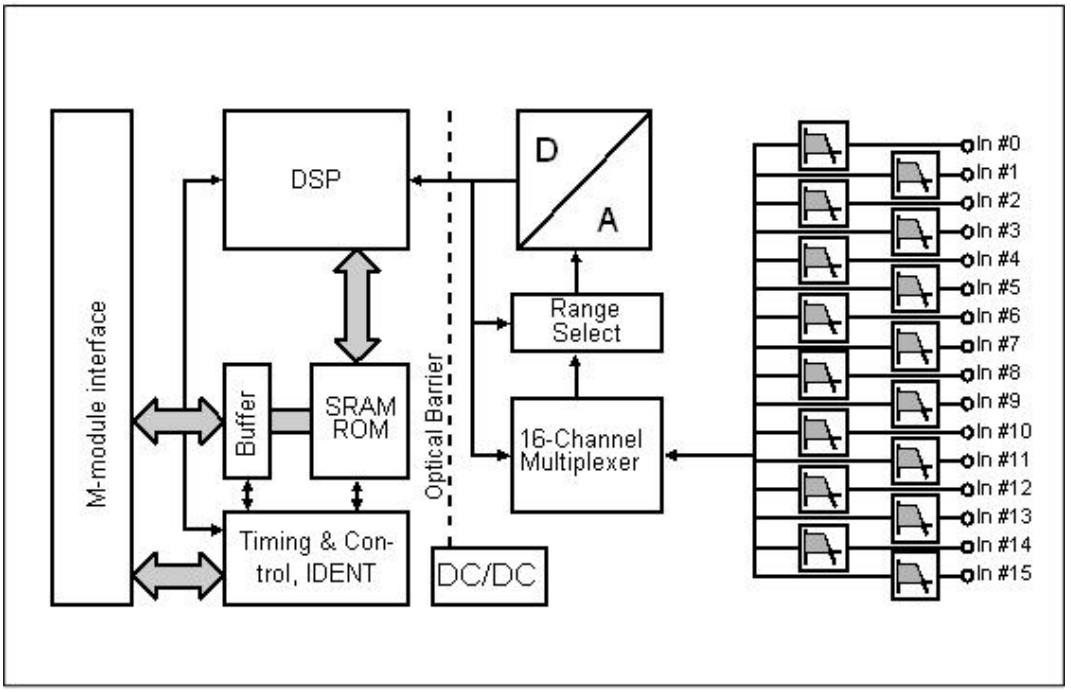
* 16 common-mode input channels available
* Inputs are optically isolated from the system
* 2-pole filter with 1kHz cut-off frequency per channel

Input Range

* Input range is software programmable per channel
* Uni-polar input range: 0V..+5V/0V..+10V
* Bi-polar input range: -5V..+5V/-10V..+10V

Ordering Information

* **M392/T03** M-module, 12-bit resolution, without DCDC
* **M392/T01** M-module, 12-bit resolution, with DCDC
* **M392/T04** M-module, 16-bit resolution, without DCDC
* **M392/T02** M-module, 16-bit resolution, with DCDC
* **M392/SW** APIS based software
* **M392/MAN** manual on paper



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