

M395

12-/16-bit DAC M-module, 16x Voltage Outputs



The M395 features 16 analog voltage outputs, integrated on the ANSI certified M-module standard. The digital-to-analog converters have a resolution of 12-or 16-bit. The voltage outputs on the M395 have a software programmable common output range of 0..+10V (uni-polar) or -10V..+10V (bi-polar). The hosting system has full control of the M395 by accessing its dual-ported memory. Each channel has its own conversion register and an output will be updated when a new value is written in the corresponding register.

Features:

- > 16 DACs with 12- or 16-bit resolution
- > Simultaneously updating voltage outputs
- > Software programmable common output range

 Unipolar: 0 .. +10V

 Bipolar: -10V .. +10V
- > 10 microseconds (max.) output response time
- > No potentiometers
- > Analog front-end optically isolated
- > Optional onboard DC/DC converter for isolated power supply
- > Features local TMS320C203 DSP
- > Calibration data stored in local EEPROM
- > A08/D16 M-module interface

M-module Compliancy

- * A08/D16 (8-bit address and 12-or 16-bit data)
- * INTA (software-end-of-interrupt)
- * IDENT (identification EEPROM)

DACs

- * DAC resolution 12- or 16-bit
- * Each channel has a dedicated data register that controls the output
- * Output is updated after data register contents is refreshed
- * Additional functionality can be implemented on request

Analog Outputs

- 16 common-mode voltage output channels available
- Uni-polar and bi-polar output range software programmable for all channels
- * Outputs are optically isolated from the system
- * Features pre-loading and simultaneous output update for all channels

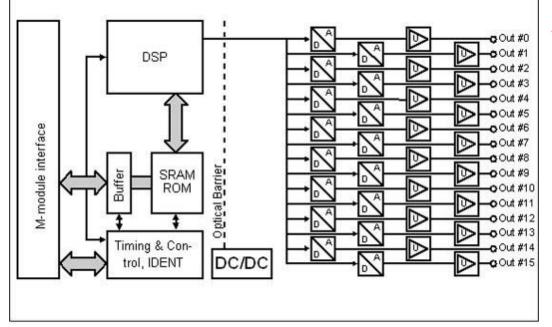
Output Range

Voltage outputs:

- * Uni-polar (0..+10V)
- * Bi-polar (-10V..+10V)

Ordering Information

- M395/T04 12-bit DAC M-module with 16x Voltage Outputs, without DCDC
- M395/T02 12-bit DAC M-module with 16x Voltage Outputs, with DCDC
- * M395/T05 16-bit DAC M-module with 16x Voltage Outputs, without DCDC
- * M395/T03 16-bit DAC M-module with 16x Voltage Outputs, with DCDC
- M395/SW APIS based software
- * M395/MAN manual on paper





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