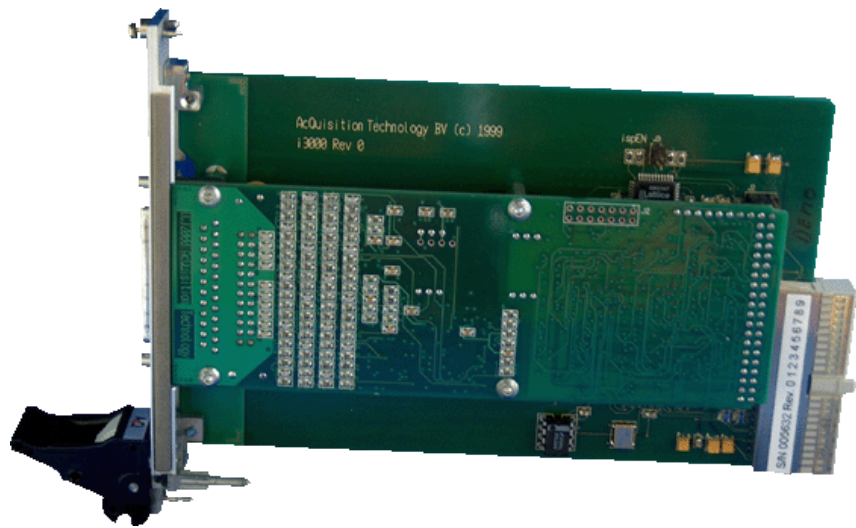


CPCI395

12-/16-bit 16 Channel DAC for CompactPCI



The CPCI395 features 16 analog voltage outputs, integrated on the CompactPCI standard. Each output has a 12- or 16-bit resolution and a software programmable output range (0..+10V or -10..+10V). Control of the analog output is as easy as writing the binary equivalent to a dedicated register (per channel). Conversion takes place automatically. If desired, channels can be synchronized by presetting the channels and then give a simultaneous update command. The local TMS320C203 DSP is capable of executing custom algorithms for optional data processing.

This CompactPCI card is available in a 3U and a 6U form factor.

Features:

- > 16 D-to-A converters with 12- or 16-bit resolution
- > Simultaneously updating of outputs
- > 10 microseconds (max.) output response time
- > No potentiometers
- > Analog front end optically isolated from hosting system
- > On-board DC/DC converter for isolated power supply
- > Features local TMS320C203 DSP
- > Calibration data stored in local EEPROM

Output Characteristics

- * The CPCI395 has 16 common-mode output channels.
- * These channels are optically isolated.
- * Output ranges are software programmable.
- * Uni-polar output range: 0V to +10V
- * Bi-polar output range: -10V to +10V

Conversion Characteristics

- * The CPCI395 has a 12- or 16-bit conversion accuracy and a maximum output response time of 10 microseconds.
- * The local DSP (TMS320C203) performs acquisition sequences.
- * User-specific functions (e.g. table output) can be implemented on request.

PCI Interface

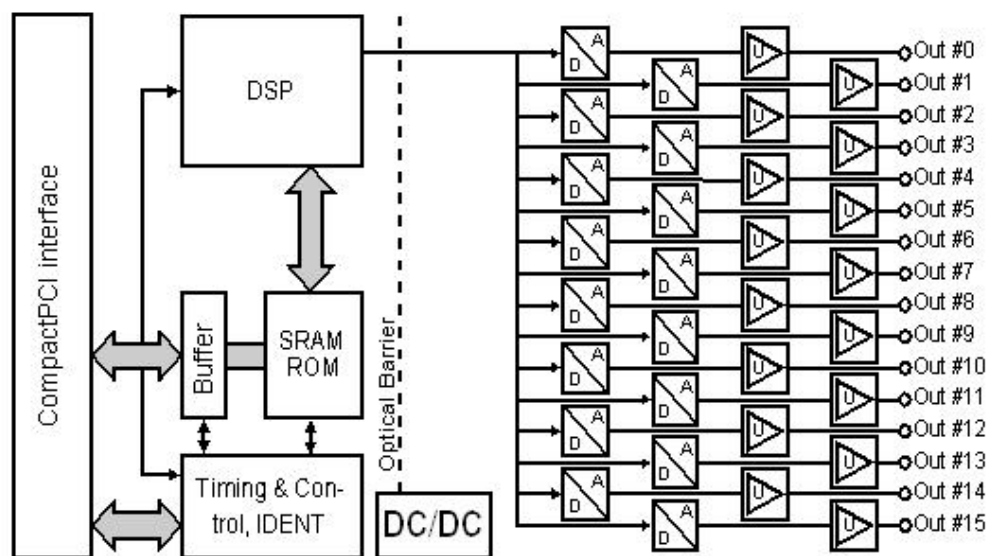
- * The CPCI395 has a PCI Specification 2.1 compliant target interface and uses a PCI9050 PCI Bus Target Interface Chip by PLX Technology Inc.

Ordering Information

- * **CPCI395/T04** (3U) 16-channel analog voltage output, 12-bit resolution, without DCDC
- * **CPCI395/T02** (3U) 16-channel analog voltage output, 12-bit resolution, with DCDC
- * **CPCI395/T05** (3U) 16-channel analog voltage output, 16-bit resolution, without DCDC
- * **CPCI395/T03** (3U) 16-channel analog voltage output, 16-bit resolution, with DCDC

Ordering Information

- * **CPCI4395/T04** (6U) 64-channel analog voltage output, 12-bit resolution, without DCDC
- * **CPCI4395/T02** (6U) 64-channel analog voltage output, 12-bit resolution, with DCDC
- * **CPCI4395/T05** (6U) 64-channel analog voltage output, 16-bit resolution, without DCDC
- * **CPCI4395/T03** (6U) 64-channel analog voltage output, 16-bit resolution, with DCDC
- * **CPCI(4)395/SW** APIS based software
- * **CPCI(4)395/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