

6 Channel Analog Output ISA Board

CIO-DDA06

Registered
ISO 9001
Company



- Six channels
- 12 bit resolution
- One analog output circuit per channel
- 24 high drive digital I/O

DESCRIPTION	PRODUCT CODE
CIO-DDA06/16 6 channel, 12 bit, $\pm 5V$ D/A (2 installed), 24 bit digital I/O	909 763 37
CIO-DUAL-DAC additional two channels, one chip	909 763 38
CIO VEE driver	909 760 85
Universal Library Software with manual	909 447 88
LabVIEW Driver extension to Universal Library	909 763 64

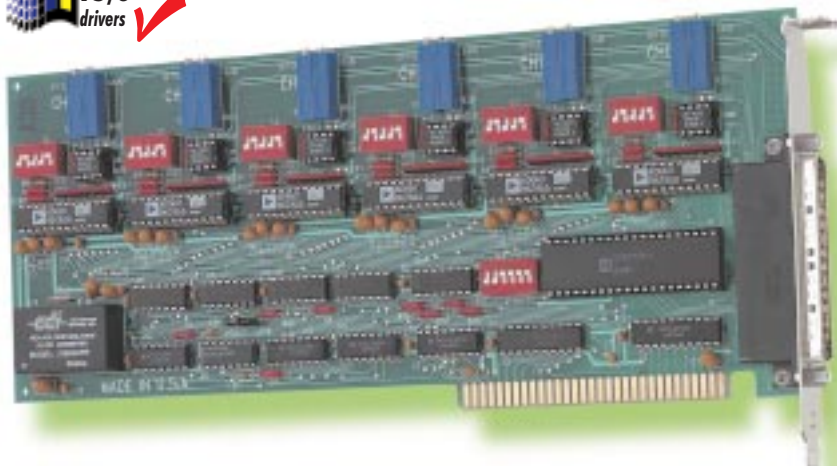
The CIO-DDA06 is supplied with software for calibration and test. In addition, the Universal Library provides high level language support for DOS, Win 95/98, Labtech Notebook and Agilent VEE Pro.

SPECIFICATION

ANALOG OUTPUT	
Channels	2 installed upgradeable to 6
Resolution	12 bit
D/A type	Dual DAC, AD7237 – 12 bit,
Latches	Double buffered/Sim. update
Linearity	$\pm 1/2$ bit
Monotonicity	$\pm 1/2$ bit
Temperature drift	± 25 ppm/ $^{\circ}C$
Load current	± 5 mA max
Short circuit current	80mA typical
Output resistance	<0.5 ohm
Settling time	5 μ S typ, 10 μ S max. (to 0.01%)
Output range	Fixed $\pm 5V$
DIGITAL I/O	
I/O ports	2 eight bit, 2 four bit
Total bits	24
Output high	2.4V min @ 15 mA
Output low	0.5V max @ 64 mA
Input high	2.0V min, 7.0V max
Input low	-0.5V min, 0.8V max
Compliance	CE EMC

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CIO-DDA06/16



- Six channels
- 16bit resolution
- One analog output circuit per channel
- 24 digital I/O

high level language support for simultaneous update of multiple analog outputs, digital configuration & control , DOS, Win 95/98. Menu driven programs Labtech Notebook and VEE Pro also support the CIO-DDA06/16.

DESCRIPTION	PRODUCT CODE
CIO-DDA06/16 6 channel, 16 bit, D/A, 24 bit digital I/O	909 655 94
CIO VEE driver	909 760 85
Universal Library with manual	909 447 88
37-way terminal	919 020 47
37-way cable	909 760 86
LabVIEW Driver extension to Universal Library	909 763 64

SPECIFICATION

ANALOG OUTPUT	
Channels	6 voltage output
Resolution	16 bit
D/A type	Dual DAC DAC725
Latches	Double buffered/Sim. update
Linearity	$\pm 0.006\%$ FS
Monotonicity	14 bit over Temp Range
Temperature drift	1ppm typ, 3ppm max @ 0V 15ppm typ, 30ppm max @ FS
Load current	± 5 mA max
Short circuit current	40mA max
Output resistance	<0.1 ohm
Settling time	5 μ S typ., 10 μ S max. (to 0.003%)
Output ranges	± 10 , ± 5 , ± 2.5 Bipolar Volts -10, 0-5 Unipolar Volts
DIGITAL INPUT/OUTPUT	
I/O ports	2 eight bit, 2 four bit
Total bits	24
Output high	2.4V min @ 2.5mA
Output low	0.5V max @ 2.5 mA
Input high	2.0V min, 7.0V max
Input low	-0.5V min, 0.8V max
Compliance	CE EMC

The CIO-DDA06/16 is a 6 channel, 16 bit analog output board with 24 bit digital I/O. The 16 bit range may vary from $\pm 10V$ (300 μ V/bit) to ± 2.5 (67 μ V/bit) this allows you to bracket more closely the signal you wish to simulate, or to match the range exactly to the proportional device you wish to control.

The CIO-DDA06/16 is supplied with a complete user's manual and calibration software. The Universal Library provides