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TECHNOLOGY GROUP

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Artisan Technology Group
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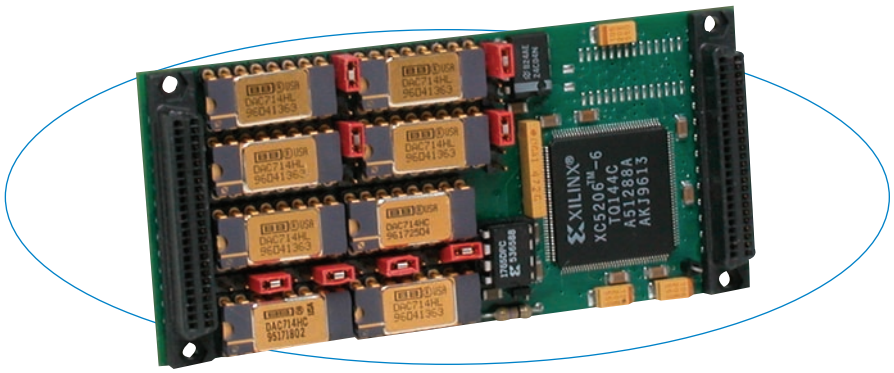
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Acromag
THE LEADER IN INDUSTRIAL I/O

RoHS Compliant

IP230A-x
16-Bit D/A, Analog Output



Independent D/A converters on each channel provide better performance and smoother operation.

IP230A modules have a 16-bit D/A converter (DAC) to provide highly-accurate analog voltage outputs.

Jumper-selectable output ranges give you the choice of unipolar or bipolar voltage output. And for greater flexibility, the IP230A module accepts conversion start triggers from software commands, or from external sources for synchronization to specific events.

Features

- IP230A-4: 4 analog voltage output channels
  IP230A-8: 8 analog voltage output channels
- Individual 16-bit D/A converters per channel
- 10µS settling time (100KHz throughput)
- Three output ranges: ±5V, ±10V, 0 to 10V (jumper-selectable)
- Two trigger modes (software or external trigger)
- External trigger output
- Extended temperature option (-40 to 85°C)

Benefits

- High channel density saves card cage slots.
- Internally stored calibration coefficients ensure accuracy.
- Flexible output control allows single cycle updating of individual channels or all channels simultaneously.
- Hardware jumpers allow output range selection on an individual channel basis.

Specifications

Analog Outputs

Output configuration: 4 (IP230A-4/4E) or 8 (-8/8E).

D/A Resolution: 16 bits.

Output ranges: ±5V, ±10V, 0 to 10V (jumper-selectable).

Maximum throughput rate:
Outputs can be updated simultaneously or individually.
One channel: 100KHz (10µS/conversion)
Four channels (IP235A-4): 100KHz (10µS/4 ch)
Eight channels (IP235A-8): 100KHz (10µS/8 ch).

DAC programming: Immediate (transparently programmed to DAC output); simultaneous (input latches of multiple DACs are loaded with new data before simultaneously updating outputs).

System accuracy: 0.0061% of 20V span maximum corrected error (i.e. calibrated) at 25°C with the output unloaded.

Output at reset: 0V for bipolar output, 5V for unipolar.

Output current: -5 to +5mA (maximum).

Short circuit protection: Indefinite at 25°C.

IP Compliance (ANSI/VITA 4)

Meets IP specifications per ANSI/VITA 4-1995.

IP data transfer cycle types supported:
Input/output (IOSel*), ID read (IDSel*).

Access Times (8MHz clock):
All functions: 1 wait state (375nS cycle).

Environmental

Operating temperature: 0 to 70°C (IP230A-4/8) or -40 to 85°C (IP230A-4E/8E models).

Storage temperature: -55 to 125°C (all models).

Relative humidity: 5 to 95% non-condensing

Power: +5V (±5%): 200mA maximum.
±12V (±5%) from P1: 150mA maximum.

MTBF: 815,720 hrs. at 25°C, MIL-HDBK-217F, notice 2.

Ordering Information

Industry Pack Modules

IP230A-4
Four high-resolution voltage outputs

IP230A-4E
Same as IP230A-4 plus extended temp. range

IP230A-8
Eight high-resolution voltage outputs

Acromag offers a wide selection of Industry Pack Carrier Cards.

Software

IPSW-API-VXW
VxWorks® software support package

IPSW-API-WIN32
32-bit Windows® DLL driver software support package

IPSW-API-WIN64
64-bit Windows® DLL driver software support package

IPSW-LNX-API
Linux™ support (website download only)

Accessories

See www.acromag.com for more information

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Gold-standard solutions

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We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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