

PCI/PCIe/cPCI-6208/6216 Series

8/16-CH 16-Bit Analog Output Cards

PCI EXPRESS® **PCI** CompactPCI



PCI-6208V-GL



PCIe-6208V-GL



cPCI-6208V-GL

Features

- Supports a 32-bit 3.3 V or 5 V PCI bus (PCI-6208/6216-GL)
- x1 lane PCI Express® Interface (PCIe-6208/6216-GL)
- 3U Eurocard form factor, CompactPCI compliant PICMG 2.0 R2.1 (cPCI-6208/6216 series)
- 16-bit D/A resolution
- Effective 15-bit resolution current transducers (PCI-6208A/cPCI-6208A)
- 8-CH voltage outputs (PCI/PCIe/cPCI-6208V-GL)
- 16-CH voltage outputs (PCI/PCIe/cPCI-6216V-GL)
- 8-CH current outputs (PCI/cPCI-6208A)
- Bipolar analog output range
- 4-CH TTL digital inputs and 4-CH TTL digital outputs
- Rear I/O available on the cPCI-6208V/R-GL, cPCI-6216V/R-GL & cPCI-6208A/R.

Operating Systems

- Windows 7/Vista/2000/XP/Server 2003
- Linux
- Windows CE (call for availability)

Recommended Software

- AD-Logger
- VB.NET/VC.NET/VB/VC++/BCB/Delphi
- DAQBench

Driver Support

- DAQPilot for Windows
- DAQ-LVIEW PnP for LabVIEW™
- DAQ-MTLB for MATLAB®
- PCIS-DASK for Windows
- PCIS-DASK/X for Linux

Introduction

ADLINK's PCI/PCIe/cPCI-6208 series are 8 or 16-CH, 16-bit, analog output cards. The PCI/PCIe/cPCI-6208V-GL series offers 8 voltage outputs with ± 10 V range, featuring 15-bit monotonicity and $10 \text{ V}/\mu\text{s}$ slew rate. The onboard analog switches minimize the power-on glitches. The PCI/PCIe/cPCI-6216V-GL series expands the voltage output channels to a total of 16 for higher analog output density requirements. In addition to the voltage output functions, the PCI/cPCI-6208A features 8 current outputs with ranges of 0-20 mA, 4-20 mA, and 5-25 mA. The daughter board EXP-8A provides high-quality voltage to current transducers. The PCI/cPCI-6208A device is capable of delivering 14-bit monotonicity with $1.3 \text{ mA}/\mu\text{s}$ slew rate.

ADLINK PCI/PCIe/cPCI-6208 series devices provide high-resolution, high-density analog output functionalities and are suitable for ATE, signal generation, industrial process control, servo control and other industrial control applications.

Specifications

Voltage Output

- Number of channels
 - 8 voltage outputs (PCI/PCIe/cPCI-6208V-GL & PCI/cPCI-6208A)
 - 16 voltage outputs (PCI/PCIe/cPCI-6216V-GL)
- Resolution: 16 bits
- Monotonicity: 15 bits typical
- Output ranges: ± 10 V
- Slew rate: $10 \text{ V}/\mu\text{s}$ typical
- Settling time: $130 \mu\text{s}$ typical (20 V step)
- Gain Error: $\pm 0.2\%$ maximum
- DNL: ± 0.65 LSB typical
- Output driving capacity: ± 5 mA maximum
- Output initial status: 0 V
- Data transfer: programmed I/O

Current Output

- Number of channels: 8 current outputs (PCI/cPCI-6208A)
- Resolution: 15 bits typical
- Monotonicity: 14 bits typical
- Output ranges: (Software programmable) 0-20 mA, 4-20 mA, 5-25 mA
- Slew rate: $1.3 \text{ mA}/\mu\text{s}$ typical
- Settling time: $17 \mu\text{s}$ typical (20 mA step)
- Span Error: $\pm 0.3\%$ typical
- Output Initial Status: 4 mA (after RESET or POWER-ON)
- Data transfer: programmed I/O

Digital I/O

- Number of channels: 4 inputs and 4 outputs
- Compatibility: 5 V/TTL
- Data transfers: programmed I/O

General Specifications

- I/O connector: One 37-pin D-sub female
- Operating temperature: 0°C to 50°C
- Storage temperature: -20°C to 80°C
- Relative humidity: 5% to 95%, non-condensing
- Power requirements

| Device | +5 V | +12 V |
|-----------------|----------------|----------------|
| PCI-6208V-GL | 650 mA typical | 170 mA typical |
| PCI-6216V-GL | 1.2 A typical | 280 mA typical |
| PCI-6208A | 670 mA typical | 380 mA typical |
| cPCI-6208V/R-GL | 500 mA typical | 200 mA typical |
| cPCI-6216V/R-GL | 1 A typical | 300 mA typical |
| cPCI-6208A/R | 600 mA typical | 380 mA typical |

| Device | +3.3 V | +12 V |
|---------------|----------------|----------------|
| PCIe-6208V-GL | 310 mA typical | 380 mA typical |
| PCIe-6216V-GL | 315 mA typical | 660 mA typical |

- Dimensions (not including connectors)
 - 175 mm x 107 mm (PCI-6208/6216)
 - 168 mm x 112 mm (PCIe-6208/6216)
 - 160 mm x 100 mm (cPCI-6208/6216)

Terminal Boards & Cables

■ DIN-37D-01

Terminal Board with One 37-pin D-sub Connector and DIN-Rail Mounting (Cables are not included.)

■ ACLD-9137-01

General-Purpose Terminal Board with One 37-pin D-sub Male Connector

■ ACLD-9137F-01

General-Purpose Terminal Board with One 37-pin D-sub female Connector.

■ ACL-10137-IMM

37-pin D-sub male/male cable, 1 M

■ ACL-10137-IMF

37-pin D-sub male/female cable, 1 M

* For more information about mating cables, please refer to P2-59/60.

Note: A rear I/O terminal board (cPCI-R6216DB) has been included with the cPCI-6208V/R-GL, cPCI-6216V/R-GL and cPCI-6208A/R. This cPCI-R6216DB rear I/O board is responsible for conducting I/O signals from the CompactPCI J2 connector to a 37-pin D-sub connector.

Ordering Information

■ PCI-6208V-GL

8-CH 16-Bit Voltage Output Card

■ PCI-6216V-GL

16-CH 16-Bit Voltage Output Card

■ PCI-6208A

8-CH 16-Bit Voltage and Current Output Card

■ cPCI-6208V-GL

8-CH 16-Bit Voltage Output Module

■ cPCI-6208V/R-GL

8-CH 16-Bit Voltage Output Module with Rear I/O

■ cPCI-6208A

8-CH 16-Bit Voltage and Current Output Module

■ cPCI-6208AR

8-CH 16-Bit Voltage and Current Output Module with Rear I/O

■ cPCI-6216V-GL

16-CH 16-Bit Voltage Output Module

■ cPCI-6216V/R-GL

16-CH 16-Bit Voltage Output Module with Rear I/O

■ PCIe-6208V-GL

8-CH 16-Bit Voltage Output PCI Express® Card

■ PCIe-6216V-GL

16-CH 16-Bit Voltage Output PCI Express® Card

Note: Rear I/O versions can not be used in PXI chassis due to signals conflict with PXI bus.

Pin Assignment

PCI/PCIe/cPCI-6208V-GL and PCI/PCIe/cPCI-6216V-GL

| | | | |
|---------|----|----|---------|
| DI3 | 1 | 20 | DO3 |
| DI2 | 2 | 21 | DO2 |
| DI1 | 3 | 22 | DO1 |
| DI0 | 4 | 23 | DO0 |
| GND | 5 | 24 | GND |
| +5Vout | 6 | 25 | -15Vout |
| +15Vout | 7 | 26 | AGND |
| AGND | 8 | 27 | NC/V15 |
| NC/V14 | 9 | 28 | V7 |
| V6 | 10 | 29 | AGND |
| AGND | 11 | 30 | NC/V13 |
| NC/V12 | 12 | 31 | V5 |
| V4 | 13 | 32 | AGND |
| AGND | 14 | 33 | NC/V11 |
| NC/V10 | 15 | 34 | V3 |
| V2 | 16 | 35 | AGND |
| AGND | 17 | 36 | NC/V9 |
| NC/V8 | 18 | 37 | V1 |
| V0 | 19 | | |

(PCI/cPCI-6208A)

| | | | |
|---------|----|----|---------|
| DI3 | 1 | 20 | DO3 |
| DI2 | 2 | 21 | DO2 |
| DI1 | 3 | 22 | DO1 |
| DI0 | 4 | 23 | DO0 |
| GND | 5 | 24 | GND |
| +5Vout | 6 | 25 | -15Vout |
| +15Vout | 7 | 26 | AGND |
| AGND | 8 | 27 | A7 |
| A6 | 9 | 28 | V7 |
| V6 | 10 | 29 | AGND |
| AGND | 11 | 30 | A5 |
| A4 | 12 | 31 | V5 |
| V4 | 13 | 32 | AGND |
| AGND | 14 | 33 | A3 |
| A2 | 15 | 34 | V3 |
| V2 | 16 | 35 | AGND |
| AGND | 17 | 36 | A1 |
| A0 | 18 | 37 | V1 |
| V0 | 19 | | |

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cPCI & Industrial Computers

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

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