PCI/PCIe/cPCI-6208/6216 Series

8/16-CH 16-Bit Analog Output Cards

CompactPCI

PCI EXPRESS® PCI



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-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)**
- **8-CH voltage outputs (PCI/PCIe/cPCI-6208V-GL)**
- **16-CH voltage outputs (PCI/cPCI-6216V-GL)**
- **8-CH current outputs (PCI-6208A)**
- **Bipolar analog output range**
- **4-CH TTL digital inputs and 4-CH TTL digital outputs**

Supported Operating System

- Windows 7/8 x64/x86, Linux

Driver and SDK

- LabVIEW, MATLAB, C/C++, Visual Basic, Visual Studio.NET

Specifications

Voltage Output

- Number of channels
  - 8 voltage outputs (PCI/PCIe/cPCI-6208V-GL & PCI-6208A)
  - 16 voltage outputs (PCI/cPCI-6216V-GL)
- Resolution: 16 Bit
- Monotonicity: 15 Bit typical
- Output ranges: ±10 V
- Slew rate:26 V/μs typical
- Settling time: 130 μs typical (20 V step)
- Gain Error: ±0.2% maximum
- DNL: ±1 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-6208A)
- Resolution: 15 Bit typical
- Monotonicity: 14 Bit typical
- Output ranges: (Software programmable) 0-20 mA, 4-20 mA, 5-25 mA
- Slew rate: 1.3 mA/μs typical
- Settling time: 17 μs typical (20 mA step)
- Span Error: ±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 (32°F to 122°F)
- Storage temperature: -20°C to 80°C (-4°F to 176°F)
- 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	500 mA typical	200 mA typical
cPCI-6216V	1 A typical	300 mA typical

Device	+3.3 V	+12 V
PCIe-6208V-GL	310 mA typical	380 mA typical

- Dimensions (not including connectors)
  175 mm x 107 mm (6.82" x 4.17") (PCI-6208/6216)
  168 mm x 112 mm (6.55" x 4.36") (PCIe-6208)
  160 mm x 100 mm (6.24" x 3.9") (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-10137-1MM
  37-pin D-sub male/male cable, 1 M
- ACL-10137-1MF
  37-pin D-sub male/female cable, 1 M

*** For more information about mating cables, please refer to P3-48/49.**

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-6216V-GL**
  16-CH 16-Bit Voltage Output Module
- **PCIe-6208V-GL**
  8-CH 16-Bit Voltage Output PCI Express® Card

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