

# PCI/PCIe/cPCI-6208/6216 Series

## 8/16-CH 16-Bit Analog Output Cards



PCI-6208V-GL



PCIe-6208V-GL



cPCI-6208V-GL

### 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:  $\pm 10$  V
- Slew rate: 26 V/ $\mu$ s typical
- Settling time: 130  $\mu$ s typical (20 V step)
- Gain Error:  $\pm 0.2\%$  maximum
- DNL:  $\pm 1$  LSB typical
- Output driving capacity:  $\pm 5$  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/ $\mu$ s typical
- Settling time: 17  $\mu$ 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 (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-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 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

### 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

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