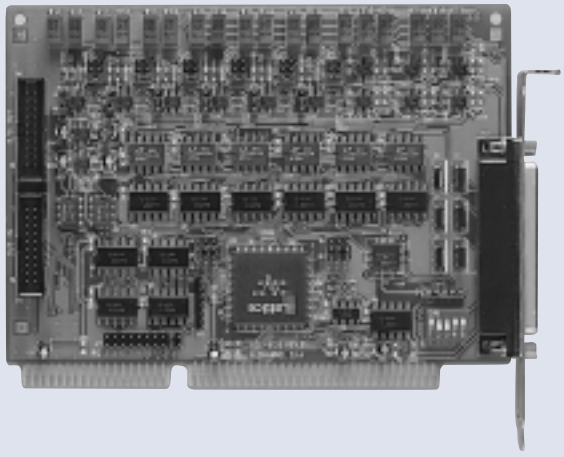
ACL-6126

6-CH Voltage & Current Output Card

Features

- 6 multiplying analog output channels
- 12 bit resolution, double buffered D/A converters
- Multiple Voltage Range (jumper selectable)
  - Bipolar: ±5V, ±10V,
  - Unipolar: 0~10V, 0~5V
- All D/A outputs are set to 0V after RESET or POWER-ON
- 16 digital input and 16 digital outputs
- Compact, half size PCB
- Surface mount component design
- PC/AT Bus architecture
- IRQ Level: IRQ3,...., IRQ 15 from external interrupt source
- Register structure compatible with PCL-726



Specifications

Analog Output (D/A)

- Number of channels: 6
- Resolution range: 12-bit, double buffered
- Converter: DAC7541 AJP or equivalent, Monolithic multiplying
- Voltage output range:
  - Unipolar: 0 ~ 5V or 0 ~ 10V
  - Bipolar: ± 5V or ± 10V
- Reference voltage:
  - Internal: -5V or -10V
  - External: +10V or -10V max.
- Voltage output settling time: Max 30μs (from -10V to +10V)
- Linearity: ±1/2 bits LSB
- Accuracy: ± 0.012% full scale range
- Temperature drift: 5 PPM/ 0˚C
- Voltage output driving capability: ±5mA max.
- Current loop (sink): 4 to 20 mA with external DC power supply, at 8V (min.) up to 36V (max.)
- Current output settling time: Max 70 μs (from 4 to 20mA)
- Output initial status: 0V (after RESET or POWER-ON)

Digital Output

- Number of channels: 16 channels
- Level: TTL compatible
  - Low: -0.5V min. to +0.8 max
  - High: 2.4V min. to 5.0V max

Digital Input

- Number of channels: 16 channels
- Input logic low: Max. 0.8V
- Input logic high: Min. 2.0V

General Specifications

- I/O address allocated: 16 consecutive address locations
- I/O connector: DB-37 female and two 20-pin header connectors
- Operating temperature: 0˚ ~ 55˚C
- Storage temperature:-20˚ ~ 80˚C
- Humidity: 5~95%, non-condensing
- Power requirement:
  - +5V @ 360mA typical
    450mA max
  - +12V @ 60mA typical
    180mA max
  - -12V @ 20mA typical
    90mA max.
- Dimension: 163 mm x 123 mm

Termination Boards

- ACLD-9137
- ACLD-9185
- ACLD-9178
- ACLD-9188
- ACLD-9182A
- DIN-37D

Ordering Information

ACL-6126

6-CH, 12-bit Analog Output Card

ACL-6126/37

ACL-6126 + ACLD-9137

Pin Assignments for the DB-37 Connector