



4417-DAC16

D/A Converter

Features

Analog Output Capability

- High Performance
- Supports up to Sixteen Channels per Module

Digital-to-analog Conversion

- Precision 12 bit

Programmable Gain & Offset for Each Channel

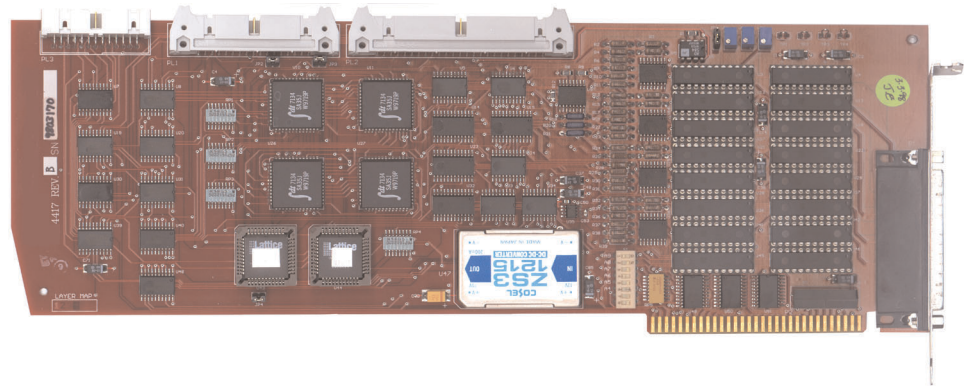
I/O Address Space Required

- Only 16 Bytes

Operates Autonomously Once Configured

Compatibility

- With all SBS Technologies, Inc. PCM Decommutators



4417-DAC16 is a 16-channel, Digital-to-Analog (D/A) conversion module for the PC. It is a standard ISA (full-size) IBM-AT card that plugs into a single 8-bit module slot.

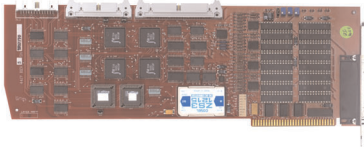
Each output channel features independently programmable 8-bit gain and offset adjustments.

Each channel has its own (12-bit) D/A converter. This allows the 4417-DAC to simultaneously output the same data on as many of the channels as required.

The 4417-DAC16 is completely software configurable. It requires only 16 addresses of the host PC's I/O address space.

A 16-bit interface, located on the top of the module, routes digital data to the 4417-DAC16. The module's 16-bit interface is compatible with the parallel output of all SBS's PC compatible decommutators. This includes the 4422-DA and 4422-PCI.

You program setup all parameters for the 4417-DAC via the ISA bus.



4417-DAC16

Configurations

Specifications

Performance

- Input:
16-bit parallel data
Compatible with output from SBS's 4422-DA and 4422-PCI
- Input code: Binary MSB aligned in a 16-bit word unipolar or 2's complement (programmable)
- Output:
16 analog channels
Individually programmable
- Output resolution:
12 bits
- Output accuracy:
1 LSB
- Output range:
 ± 5 volts
Adjustable for each channel over the entire range
- Output adjustment:
Gain: 0 to 100%
Offset: 0 to ± 5 V (depending on master reference used)
- Output drive capability:
 ± 5 volts into 2 kohms
- Full power frequency:
125 kHz per channel
- Slew rate:
3 volts per microsecond per channel
- Discrete output:
1 analog channel has paired digital output

Model Number	Configuration
4417-DAC16	D/A Converter for ISA bus

- Programming:
Via 16 bit (ISA) I/O space
Mapped for set-up of channel source data word and channel adjustment (gain & offset)

Mechanical

- Form Factor:
Single ISA full-size card
- Connectors:
16-bit parallel input interface (data & 12-bit address or data & strobes)
Female DC37 analog output
26-pin dual-inline discrete output

Mechanical

- Manufacturing: Standard size components and six layer board with ground layer

Environmental

- Operating
Temperature: 10° to 45° C
Humidity: 0% to 90% non-condensing
- Non-Operating (in proper packing)
Temperature: -25° to +70° C
Humidity: Packing must prevent contact with moisture and contaminants

- Special Handling
Standard ESD handling methods are recommended

Customer Support

- Two-year warranty
- Hardware documentation included on CD. Hard copies of the documentation are available upon request.

Corporate Headquarters

2400 Louisiana Blvd. NE, #5-600
Albuquerque, NM 87110-4316
Tel 505.875.0600 Fax 505-.875.0400
Email info@sbs.com

European Headquarters

Memminger Str. 14
D-86159 Augsburg, Germany
Tel +49-821-5034-0 Fax +49-821-5034-119
Email sales@sbs-europe.com

For additional contact information, please visit our web site at www.sbs.com

Specifications subject to change without notice. All trademarks and logos are property of their respective owners.
©2003 SBS Technologies, Inc. 20030320

