

Summary

The AD7656 contains six 16-bit, fast, low successive power. approximation ADCs all in the one package. The part AD7656 core operates from a single 4.5 V to 5.5 V power supply and features throughput rates up to 250 kSPS. The part contains low noise, wide bandwidth trackand-hold amplifiers that can handle input frequencies up to 8 MHz. The AD7656 can accommodate true bipolar input signals in the range ±10V . The AD7656 contains 2.5V а internal reference.



48 Channel Simultaneous ADC Industry Pack 16 bit 250 KSPS per channel



IP-48AD

Features

- 48 16-Bit ADCs channels
- 48 True Bipolar Analog Inputs
- Pin/Software Selectable Ranges: ±10V, ±5V
- Fast throughput rate: up to 250 kSPS per channel simultaneously
- Input buffer per channel
- Internal / External triggers
- Wide input bandwidth: 86 dB SNR at 50 kHz input frequency
- On-chip Reference and Reference Buffers
- Fifo or direct data tranfer
- DMA capable
- Programmable Interrupt
- Standby Mode: -5 µA max

Applications

- Process Control and Industrial Automation
- Precision Instrumentation
- Direct Digital Waveform Generation
- Automatic Test Equipment

Programmable via

IP Bus

IP interface

- 8/32 Mhz clock
- 16 bit data

Operating: Environmental

- Operating temperature
 Commercial: 0 to +55 °C
 Optional: -25°C to +80°C
- Non-operating: -40°C to 85 °C
- Airflow requirement: .5 CFM
- Humidity: 5 to 90% (non-cond.)
- Altitude: 0 to 10'000 ft

Mechanical: Environmental

• Size: Vita 4 Type 1 IP 1.8" x 3.9"

• Power: tbd

Vibration: 0.5G RMS

20-2000 Hz rand

• Shock: 20 G, 11 ms, ½ sine

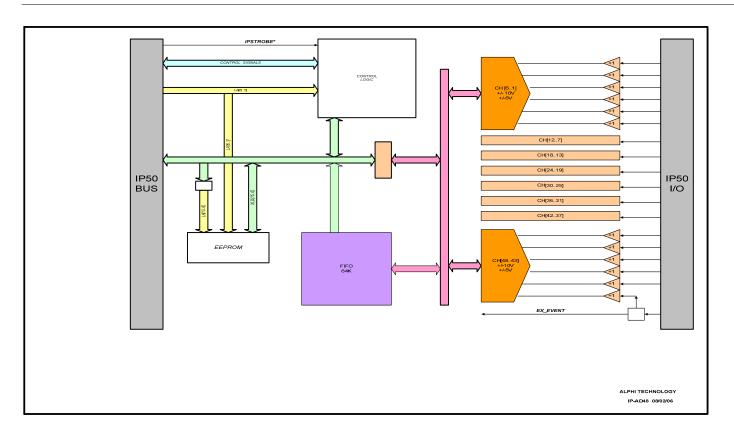
Weight: tbd

MTBF: >110000 hours



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Functional Block Diagram

ORDERING INFORMATION

Part Number: IP-48AD 48 channel 16 bit A/D Industry Pack Module

IP-48AD-I Same as above with -40 to +85 C

Optional Accessories

Part Number: TB-50-HDR 50 pin terminal block and 1meter flat ribbon cable

CBL-50-HDR 50 pin,1meter flat ribbon cable, IDC header connector

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