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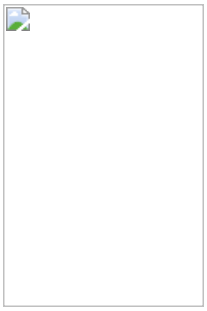
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The Wayback Machine - https://web.archive.org/web/20040211060557/http://www.ksi-corporation.com:80/products/9842/index.html



Model 9842
32-channel, 16-bit, 256 kHz A/D Converter
Low cost-per-channel, High-performance Data Acquisition



The Model 9842 VME board is a Sigma/Delta A/D Converter that offers sampling rates to 256kHz, built-in signal conditioning; and a built-in, optional, user-programmable, TMS320C6416, 2400 MMAC DSP (digital signal processor) for real-time decimation and filtering. The 9842's Xilinx XC2V1000 has 40 built-in, single-cycle, 18-bit multipliers. The board also has a Direct Digital synthesizer for sample rate generation that allows ultra-fine (.001Hz) adjustment capability.

This versatile converter can be used in a variety of applications, including high-frequency sonar, beam forming, speech processing, and acoustic/vibration analysis. The Model 9842 allows users to upgrade current systems to a higher bandwidth, while keeping the same system configuration.

Features
Specifications
Ordering Information

Features

- Up to 256 kHz sampling rate; simultaneous on all channels.
- External clock connector
- 16-bit resolution with 90 dB signal-to-noise performance
- Integral linear-phase, anti-aliasing filters
- Differential inputs
- Built-in temperature sensor
- Direct digital synthesizer for sample clock

Specifications

SNR	>94dB
SFDR	>98dB
SINAD	>92dB
Inter-Channel Skew	Better than 50ns
Max Sample Rate	256 Ksamples/second/channel
Input Slew Rate	15V/uSec
Frequency Response	+/- 0.1 dB, DC to 90 kHz
Input Range	Differential inputs +/-10v @ gain of 1
Input Impedance	100 Kohms
Input Anti-aliasing Filter	2 pole Butterworth, Fc at 320 kHz Sigma/Delta filter, Fc at 0.4535 Fs
Input channels	1-32, software programmable
Input connectors	2 DB-37s, 1 BNC for external clock
FIFO	32 Ksample deep FIFO with half-full, empty and full status interrupt capability
Power Consumption	3 amps @ +5V .8 amps @ +/-12V
Programmable Gain	1, 10, 100
A/D conversion	AKM5394A
A/D output coding	16-bit 2's complement
Sampling rates	1k-200k @ .001Hz increments
VME Interface	3 row A16D16 for control A32D64 for data FIFO
MIX interface	32-bit transfers.
Operating Temp	0-60C

Ordering Information

Options:
-001 MIXbus
-002 VMEbus
-003 TMS320C6416 DSP Option
-004 Gain Option 1, 10, 100
-005 Direct Digital Synthesizer (Internal Clock)
-006 Temperature Sensor

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