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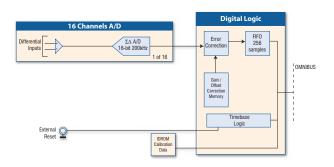
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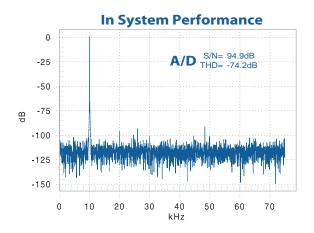
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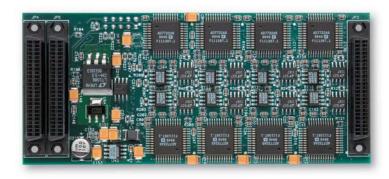
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Compatible with all OMNIBUS host products Interface Consumes one interrupt to host. **Power Requirements** 5V@2.0A, +15V@25mA, +5V@25mA Forced air cooling may be required in certain conditions OMNIBUS mezzanine card; 2.000" X 4.600" **Physicals** Sixteen AD7722 Sigma Delta converters A/D Converters 16-bit Resolution 5 - 195 kHz Sample Rate **Oversampling** 64x **Step Response Settling** 425µsec (@ 195kHz) Time Group Delay 216µsec (@ 195kHz) ±10V differential **Analog Input Range** S/N Ratio 90 dB 81 dB SINAD 13-bit **ENOB SFDR** 88dB 0.002% THD **Dynamic Range** 96 dB Trimmable \pm 3 mV **Gain Error** Trimmable < 0.01% FS Offset Error Input Type Differential Input Impedance 1 M0hm **Digital Filter** Characteristics Passband .496x Sample Rate $\pm.005~\mathrm{dB}$ **Passband Ripple Conversion Trigger** OMNIBUS DDS Timer only Sources Interface to DSP Memory-mapped 32-bit result returned for each pair







AD16 - High Precision 16 Channel A/D Module

The AD16 OMNIBUS module provides 16 simultaneous 16-bit channels of A/D conversion. There are actually 16 Analog Devices AD7722 converters, capable of 5-195kHz sampling. This high-channel density, high-accuracy, DC accurate analog front end is simply unprecedented in the industry.

Each channel employs a sigma-delta converter eliminating the need for expensive, bulky analog anti-alias filters. Each channel is a high impedance $\pm 10 \text{v}$ differential input with an independent high accuracy instrumentation amplifier. Additional features on each channel include software programmable digital offset and gain corrections, allowing software-controlled calibration (external references required). This module has 256 sample FIFOs.

The AD16 module is well suited for a variety of measurement, instrumentation, and multichannel data acquisition applications where high dynamic range, DC accuracy, and simultaneous channel sampling are required. Some typical applications may include vibration measurements, acoustic monitoring, SONAR, and audio, to name a few.

Software examples demonstrating module operation and communication are included in the Zuma/Armada Toolsets. A full calibration report ships with every module.

Ordering Information

AD16 80020-20

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