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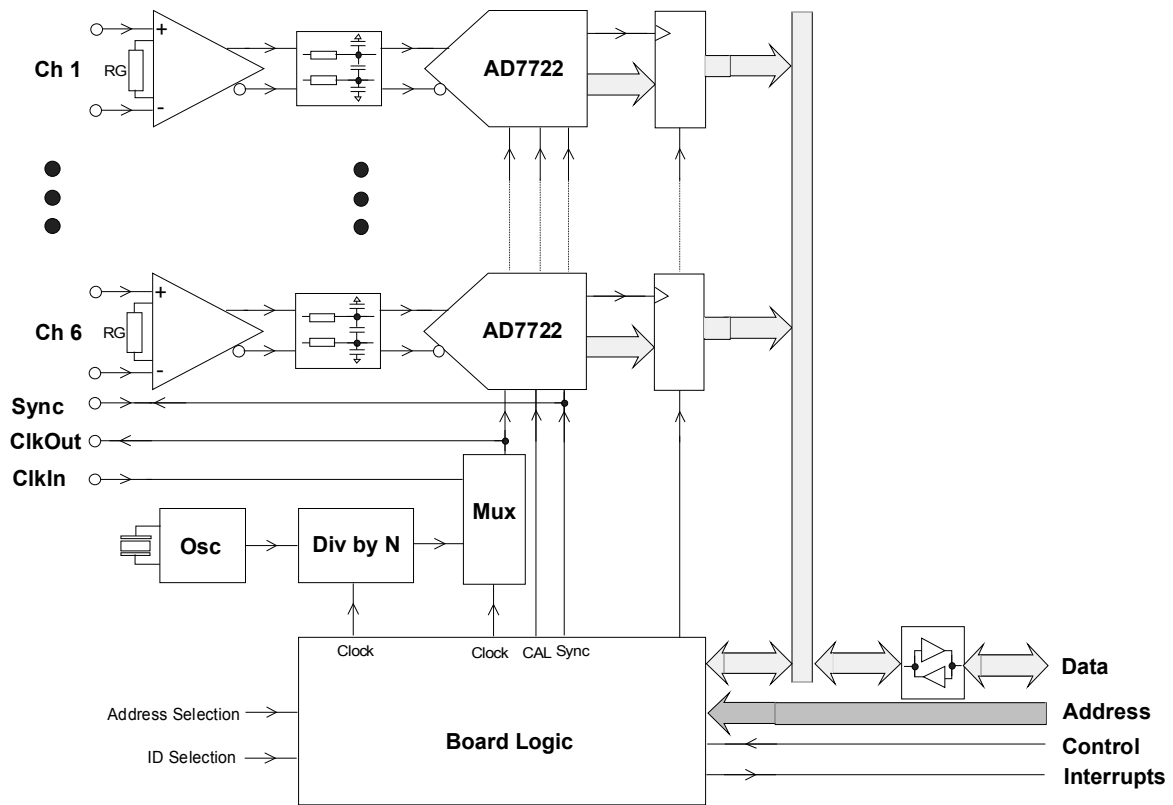
- **16 Bit Sigma-Delta Converters**
- **6 fully differential Inputs**
- **Single Resistor programmable Input Gain**
- **High DC-Accuracy**
- **Sampling Frequency**
12.5 to 200 kHz programmable
- **Synchronous Sampling of all input channels maintains phase relationship**
- **up to four boards can be cascaded and synchronously sampled**
- **Interrupt and DMA-driven data transfer**
- **Typical Applications:**
 - **Vibration Analysis**
 - **Power Line Monitoring**
 - **Multi-Channel Speech Processing**

The D.Module.AD7722 is a high-precision Analog-to-Digital converter board, suitable for all members of the D.Module DSP board family. It's six input channels are DC-accurate and fully differential. Input Gain is set by a single resistor. The oversampling converter architecture doesn't require high-order analogue anti-aliasing filters, hence accurate phase information of the input signals is preserved.

It's excellent DC, phase and dynamic characteristics make the board a preferred choice for a variety of applications like multi-channel speech processing, power-line metering, vibration analysis, and data logging. Up to four boards can be cascaded to a 24 channel, synchronously sampled, system. All channels can be read by a single block transfer, minimizing the CPU load for data acquisition.

SPECIFICATIONS

Power Supply	Analog: +/- 5 V +/- 5% , TBD mA Digital :3.3V +/- 5% (5V +/-10% optional) , TBD mA
Operating Temperature	-40..+85°C (industrial grade)
Sampling Frequency	programmable: 12.5, 16.6, 20, 25, 33, 50, 100, 200 kHz, or external clock
Sampling	synchronous sampling of all channels
Group Delay	215 μ s at 200 kHz sampling frequency
Inputs	6, fully differential, +/- 2.5V full-scale input
Input Gain	single-resistor programmable, 0..+20 dB
Resolution	16 bits
THD & N:	TBD
SINAD	TBD
Digital Interface	16 bits wide data bus, two programmable interrupt outputs
High Level Input Voltage	min. 2V, max. 5.2 V
Low Level Input Voltage	min. -0.2V, max. 0.8V
Size	max. 85 x 58.5 x 15 mm



ORDERING INFORMATION

D.Module.AD7722-6

Six Channel Analog-to-Digital Converter Board

Options

-1 (single channel)

-2 (dual channel)

-4 (quad channel)

-5V (5V digital interface)

DS.AD7722

Development Support Base Package incl. Support Software, User's Guide and Manuals

For additional information contact your local distributor or D.SignT directly.

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