

Catalina Research Nimble-8  
**A/D Converter VME Module**



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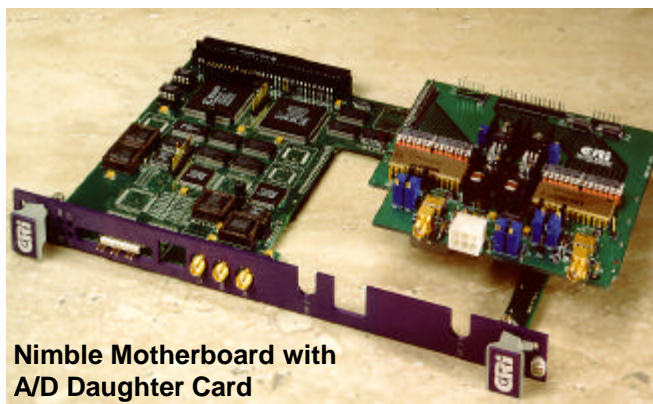


## Performance Specifications for the Nimble A/D Daughter Cards

CRI's Nimble product family consists of two main sections: the Nimble digital motherboard and the Nimble A/D daughter cards. Please refer to the Nimble data sheet for more details.

The digital motherboard provides the convert clock, sampling control logic, and FIFOs to compliment the A/D function. It is isolated from the A/D daughter card through optocouplers and ground chokes (where appropriate).

The A/D daughter cards are based on various manufacturers' A/Ds and are detailed below.



**Nimble Motherboard with A/D Daughter Card**

PART NUMBER	SPECIFICATIONS
Nimble 6	16 bits / 2 MSPS (single channel) Analogic ADC4322 Hybrid A/D Converter SNR 86 dB ( $F_{in} = 100$ kHz, $F_s = 2$ MHz) THD 86 dB ( $F_{in} = 100$ kHz, $F_s = 2$ MHz)
Nimble 7	14 bits / 10 MSPS (dual channel) Analog Devices AD9240 Monolithic A/D Converter SNR 81 dB ( $F_{in} = 1$ MHz, $F_s = 10$ MSPS) SFDR 85 dB ( $F_{in} = 1$ MHz, $F_s = 10$ MSPS)
Nimble 8	12 bits / 41+ MSPS (dual channel) Analog Devices AD9042 Monolithic A/D Converter DC coupled; Analog Bandwidth < 10 MHz (op-amp front end) SNR 73 dB ( $F_{in} = 4.8$ MHz, $F_s = 40$ MSPS) SFDR 75 dB ( $F_{in} = 4.8$ MHz, $F_s = 40$ MSPS)
Nimble 9	12 bits / 41+ MSPS (dual channel) Analog Devices AD9042 Monolithic A/D Converter AC coupled; Analog Input Straight into A/D for Optimized SNR/SFDR Performance SNR 69 dB ( $F_{in} = 21.0$ MHz, $F_s = 52$ MSPS) SFDR 73 dB ( $F_{in} = 21.0$ MHz, $F_s = 52$ MSPS)
Nimble 10	12 bit / 65+ MSPS (dual channel) Please contact CRI for more information.

**PERFORMANCE PLOTS AVAILABLE UPON REQUEST.  
PLEASE CONTACT CRI FOR PRICING AND DELIVERY INFORMATION.**

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