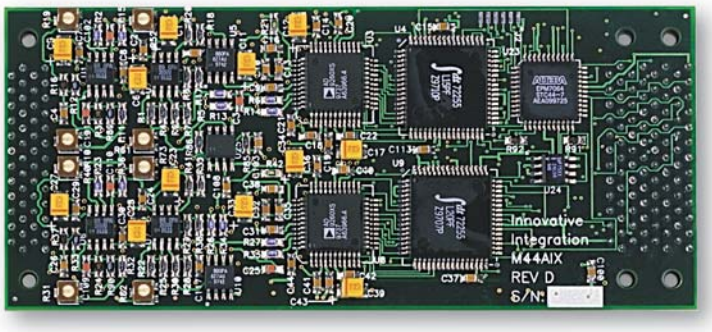


Interface	Compatible with all OMNIBUS host products Consumes one interrupt to host
Physicals	OMNIBUS mezzanine card; 2.000" X 4.600"
A/D Converters	4 Analog Devices AD9260 converters
Resolution	12-bit (± 1848 counts)
Update Rate	1 kHz - 20 MHz
External Clock	Up to 20 MHz
Settling Time	15 us max to 0.0007% (no external filtering)
Analog Input Range	± 2 V
S/N Ratio	60 dB
THD	-75 dB
Dynamic Range	85 dB
Gain Error	Trimmable on each channel – factory calibrated
Differential Linearity Error	0.25 LSB typical
Offset Error	Trimmable on each channel – factory calibrated
Aperature Jitter	2 ps
Input Type	single-ended
Input Impedance	50 Ohms
Analog Filter Characteristics	Single pole filter; -3 dB set at 12 MHz
Conversion Trigger Sources	Host timers
Sample FIFOs	8 K samples/external clock ch.; Memory-mapped to host; A/Ds are paired on bus as 32-bit numbers –each 16-bit half is one A/D

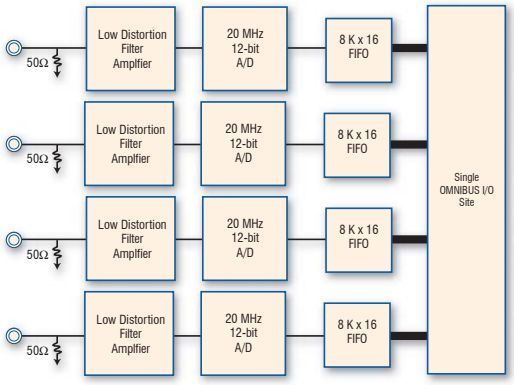
AIX20 - Very Fast Analog Input Module

The AIX20 module combines channel density and speed with four channels of 20 MHz analog conversion. The AIX20 is basically identical to the AIX module except the A/D is connected in the 1X decimation mode, resulting in a 12-bit , 20MHz converter with no digital filter. Each channel has a single-pole filter and gain/offset error correction for accurate measurements.

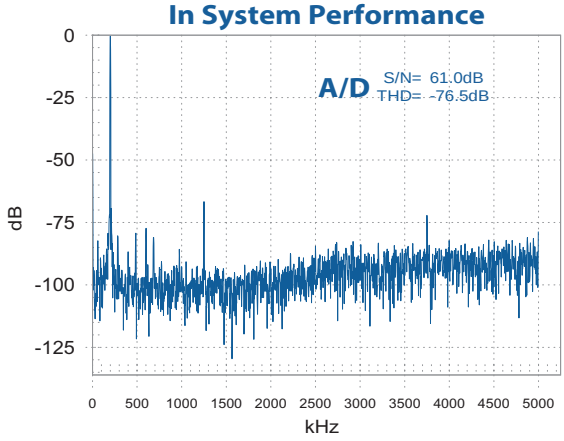
The AIX20 is used in a variety of applications including disk drive testing, CCD camera digitizing for process control and RF sampling.

Each converter channel has an 8K-sample FIFO to allow efficient data collection and transport to and from the host card. This allows data collection/playback as single points or as a data set of up to 8K samples in size, reducing the interrupt rate to the host board.

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



In System Performance



Ordering Information

AIX20	80020-10