



**Basic 200k CARD**

**Analog Input Selection**

<b>Number of Channels</b>	8
<b>Input Type</b>	single ended
<b>Input Connectors</b>	metal type BNC, outer shell grounded
<b>Input Ranges</b>	$\pm 1.0$ V, $\pm 2.0$ V, $\pm 5.0$ V, $\pm 10$ V, $\pm 20$ V, $\pm 50$ V, plus variable gain in 1000 steps (0.1 %)
<b>Offset (zero position)</b>	1000 steps (0.1%)
<b>Input Coupling</b>	DC, GND
<b>Input Impedance</b>	1 M $\Omega$
<b>Maximum Static Error (MSE)</b>	0.1 % full scale
<b>Noise</b>	0.02 % full scale
<b>Analog Bandwidth</b>	20 kHz (-3 dB)
<b>Overload Protection</b>	250 Volt
<b>Number of slots</b>	1, incl. signal conditioners

**Acquisition**

<b>Sample Rate</b>	From 200 kS/s to 0.1 S/s
<b>ADC Resolution</b>	16 bit (0.0015 %)
<b>Timebase Accuracy</b>	50 ppm
<b>Anti-Alias Filters</b>	Time- or Frequency-domain optimized
<b>Time Domain</b>	7-pole Bessel 20 kHz, optimal step response
<b>Frequency Domain</b>	7-pole Butterworth 20 kHz, extended frequency response
<b>Digital Decimation Filters</b>	IIR or FIR
<b>Time Domain</b>	6-pole Bessel style IIR, sample rate divided by 10, 20, 40, 100
<b>Frequency Domain</b>	12-pole FIR, sample rate divided by 4, 10, 20, 40

**Transient Memory**

64 MS per card, shared by enabled channels.  
**8 channels** 8 MS per channel

**Triggering**

Each channel has a dual-level trigger detector with selectable hysteresis, modes and qualifiers.

<b>Pre- and post-trigger</b>	0 to full memory length
<b>Trigger Rate</b>	Up to 1000 triggers per second, zero re-arm time
<b>Resolution</b>	16 bit for each level (= 0.0015 %)

**STATSTREAM® Real-Time Analysis**

Each channel includes real-time extraction of Max, Min, Mean, Peak-to-peak, and RMS values.

**Acquisition Modes**

<b>Sweeps</b>	Triggered acquisition to RAM without sample rate limitations; for single or repetitive transients or intermittent phenomena
<b>Continuous</b>	Direct storage to PC or mainframe hard disc without file size limitations; triggered or untriggered; for long duration recorder type applications with up to 1 MS/s rate per channel; (maximum aggregate rate pending from mainframe configuration and PC)
<b>Dual</b>	Combination of Sweeps and Continuous; recorder type streaming to hard disc with simultaneously triggered sweeps in RAM



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