25 and 40 MS/sec, 12-bit, PC/104 A/D Modules Introduced

Chase Scientific Company introduced the industry's first 12-bit, 2 channel, 25 and 40 MSamples/sec (MSPS) data acquisition cards in PC/104 format. Both the CS225 and the CS240 feature (2) 12-bit vertical resolution, synchronous, high speed differential input channels on a &quot5V only&quot PC/104 module.

The PC/104 digitizer also provides both analog and TTL trigger inputs, 32-bit digital I/O, (4) additional high speed multiplexed A/D inputs, and (4) 12-bit D/A outputs. All digital I/O are available form a single, separate 34 pin header. Both modules have software selectable memory sizes up to 32K/chan with post and pre-triggering selectable in 1 sample increments.

A fixed bipolar input range of &#177 5 V, 2.5 V, 1 V and 0.5 V come preconfigured from factory (unipolar is optional). The timebase is user programmable from 40 MHz, 20 MHz, 10 MHz . . . 1.25 MHz. Both modules were designed with the latest high frequency layout techniques to improve noise immunity. It is powered by a single 5 V supply, reducing the need for multiple power supply outputs, and draws only 5 V when fully on at maximum clock rates.

The product is designed specifically for solutions requiring high speed, high resolution, real-time A/D conversion.