



Embedded Boards • Power Supplies • Instruments

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For Immediate Release

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VXI High-Accuracy/High-Density, Synchro/Resolver Processor Card Available

0.005° Accuracy Provided for Measurement and Stimulus Functions

Bohemia NY -- North Atlantic Industries (NAI) has announced the availability of an instrument-grade, high density, DSP-based, VXI card that incorporates up to four synchro/resolver instrument measurement channels, up to four synchro/resolver instrument stimulus channels or up to eight synchro/resolver converter grade stimulus channels, and up to six programmable reference supplies. All functions of the 65CS4 are independent, are user programmable for either synchro or resolver format, and may be formatted for single-speed or multi-speed applications. The unit also incorporates an internal wrap-around self-test function that does not require external hardware or software. Synchro/resolver measurement and instrument stimulus accuracy is to within 0.005°. Converter grade stimulus accuracy is 0.015° loaded and 0.008° no load. Instrument stimulus and reference outputs provide 2.2 VA of drive and are programmable from 47 Hz to 4,000 Hz.

The 65CS4 C-size VXI card is a full-function instrument capable of performing most synchro/resolver evaluation, calibration and test functions on components, assemblies and systems. The stimulus channels can be programmed for continuous rotation up to 13.6 rps or for specific start and stop angles. The measurement channels can track signals up to 4.68 rps. Stimulus and measurement channels can be programmed for speed ratios of 2:1 through 255:1.

Measurement channels on the 65CS4 provide both digital and DC angle rate output signals. No adjustments or trimming are required on the unit. The card provides a VXI data rate of 2-megabytes/sec, dynamic address configuration, and 100 microsecond data processing.

The 65CS4 is available with an operating temperature range of 0°C to +50°C. Its power supply requirement is +5 VDC @ 8 A (no load). Pricing for 100 pieces starts at \$10,000 each. Delivery is 8 to 10 weeks ARO.

"The 65CS4 gives our customers a programmable, multi-channel, synchro/resolver instrument on the popular VXI card platform" said John Petry, Technical Sales Engineer at NAI. "They particularly like its high accuracy and resolution, high power output, and internal reference generators."

North Atlantic Industries

Founded in 1955, North Atlantic Industries (NAI), an ISO 9001:2000 certified enterprise, designs and manufactures Embedded I/O (Input/Output) Boards, Power Supplies, and Motion Simulation and Measurement Instruments for the Defense and Aerospace Industries. It provides the highest quality COTS (Commercial Off-the-Shelf) and Custom products in Commercial, Extended Temperature and Full-Military versions. NAI is focused on delivering innovation, quality, and superior value for its customers. Information about NAI and its products can be found at the company's Web site at <http://www.naii.com>.

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