Embedded Boards • Power Supplies • Instruments

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For Immediate Release

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18-Channel, VME, Serial Communications Card Now Available

Each Channel Programmable for RS-232C, RS-423, RS-422 or RS485

Bohemia NY -- North Atlantic Industries (NAI) has announced the availability of a high-speed, DSP-based, VME card with 18 full-duplex serial communications channels for commercial and military applications. Each channel of the 64RS3 can be individually software configured for either RS-232C, RS-423, RS-422 or RS-485 Synchronous or Asynchronous communications. The card's high-speed operation is achieved by performing all data transfers in hardware rather than in software. The DSP, operating at 160 MHz, is strictly used for background operations. Data rates are available at 4 Mbps per channel in Synchronous Mode and 800 Kbps per channel in Asynchronous Mode. Data can be read 4 microseconds after receipt in the UART and data transfers are accomplished within 300 nanoseconds.

The 64RS3 performs an internal loop-back self-test when power is applied and the results are stored in its registers. During this loop-back test, the outputs are disconnected so they do not disrupt external systems. All 64RS3 outputs are protected against continuous short circuits. When the card is not powered, the data bus is not loaded since all inputs and outputs are tri-state. All data lines are transient protected to IEC1000 4-2, 4-4 and 4-5.

The 64RS3 has 32 Kbytes of buffer storage for each Receive and Transmit channel. Transmitters can drive up to 32 receivers and can be configured for either half-duplex or full-duplex RS485 mode. When used in the Multi-Drop Mode, the transmit line for each channel is automatically enabled as soon as data is placed in the transmit buffer. Once transmission is completed, the transmit line is automatically changed back to the tri-state mode. Tri-state outputs also allow redundant mode operation, whereby multiple cards can be tied in parallel. Software control prevents simultaneous operation of paralleled outputs.

The 64RS3 is available for operating temperature ranges of 0°C to +70°C and -40°C to +85°C. Its power supply requirement is +5 VDC @ 3.5 A. Pricing for 100 pieces of the 0°C to +70°C version starts at $4,500.00 each. Delivery is 8 to 10 weeks ARO.

"The 64RS3 gives our customers high-speed, multi-standard, serial communications on a popular card platform" said Frank Riccobono, Director of Sales and Marketing at NAI. "They particularly like the low-data latency, redundant card operation capability and internal loop-back self-test."

North Atlantic Industries

Founded in 1955, North Atlantic Industries (NAI) 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. Additional information about NAI and its products can be found at the company's Web site at http://www.naii.com.

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Photo Attached

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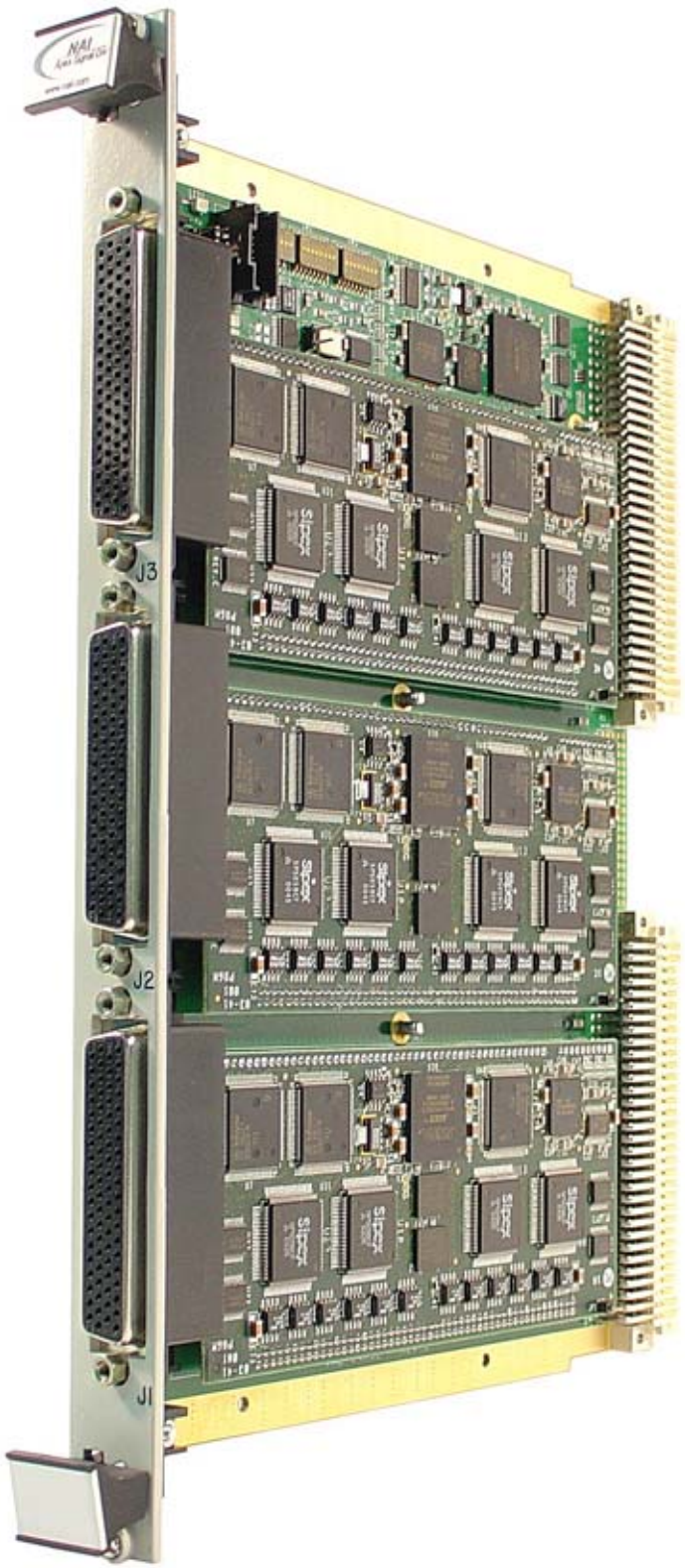
J3
J2
J1