



Embedded Boards • Power Supplies • Instruments

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For Immediate Release

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Rugged 150 Watt 3U, cPCI DC/DC Converter Now Available

High Power-Density, Low Profile Unit Converts +28 Vdc to Quad Outputs

Bohemia NY -- North Atlantic Industries (NAI) has announced the availability of its latest, next generation 3U, cPCI DC/DC converter. The [55MQ2](#) provides 150 Watts of output power (+5Vdc, +3.3Vdc and ± 12 Vdc) at full load over its operating temperature range of -55°C to +85°C (conduction cooled and measured at card edge). This rugged design is ideally suited for military airborne, shipboard, and ground applications. The 55MQ2 is designed and manufactured to NAVSO P3641 component derating guidelines and each unit receives ESS screening.

The 55MQ2 contains an integrated EMI filter compliant with MIL-STD-461E. Its input is compliant with transient requirements of MIL-STD-704A through E. It is available with optional compliance for MIL-STD-1275, with reverse polarity protection. The 55MQ2 is fully compliant with PICMG 2.11, 47 position connector pin-out. It fits standard 3U cPCI or VPX 0.8" pitch. It is a true Single Slot Solution (Does not interfere with inter-board separation plane on either side). It is compatible with the Power Management Bus. The 55MQ2 provides current share capability to implement increased power output or for load sharing of two or more units. It is available with an optional I²C communication bus. Additional features include remote error sensing, short circuit protection, current limiting and overvoltage protection. Typical efficiency is 80%.

Pricing for 100 pieces of 55MQ2 is \$2,388 each. Delivery of the 55MQ2 starts at 12 weeks ARO.

"The 55MQ2 gives our customers a low profile cPCI DC/DC converter in a compact, rugged package," said Lino Massafra, VP of Sales and Marketing at NAI. "They particularly like its high power-density and fault protection features."

North Atlantic Industries

Founded in 1955, North Atlantic Industries (NAI), an AS9100:2004 and ISO 9001:2008 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. 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

July 2009