



Embedded Boards • Power Supplies • Instruments

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For Immediate Release

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30 VA Synchro Booster Amplifier Now Available for Military and Commercial Applications

*60Hz and 400Hz versions available with 90 V_{L-L} Output and
protection on outputs and inputs*

Bohemia NY – North Atlantic Industries (NAI) has announced the availability of a 30 VA Synchro Booster Amplifier for Military and Commercial applications. The stand-alone 44PA1 unit accepts either a high voltage Synchro input or a low voltage Resolver input and delivers 30 VA of Synchro power at 90V_{L-L} that will drive most 60 Hz or 400 Hz Control Transformers (CT) or Torque Receivers (TR). The Synchro Booster Amplifier can be remotely turned “ON” or “OFF” and is therefore usable for redundant applications. All signal inputs are transformer isolated and logic inputs and outputs are opto-isolated. Synchro outputs are floating, so one leg may be grounded. Since power is derived from the reference input, rather than DC supplies, power dissipation is significantly reduced. The 44PA1 provides ± 0.05 degrees accuracy for CT loads and ± 0.17 degrees accuracy for TR loads.

The 44PA1 Synchro Booster Amplifier is protected from output short circuits, current overloads, load voltage transients, reference transients, and over-temperature. Built-In-Test (BIT) capability is included in the 44PA1 to monitor over-temperature and over-current conditions. Wrap-around testing (isolated, low level signal output) capability is provided that seamlessly interfaces with the self-test capability of North Atlantic Industries broad range of intelligent multi-function Synchro cards. The unit requires no adjustments or calibration and has rugged construction.

The 44PA1 is ideally suited for military and commercial programs, including airborne, shipboard, ground mobile and C³I applications. It is available with operating temperature range of -40°C to +71°C. Pricing for 100 pieces of the 44PA1 starts at \$1,870 each. Delivery starts at 10 to 12 weeks ARO.

"The 44PA1 provides our customers with a rugged Synchro Booster Amplifier unit that can drive high voltage CTs and TRs," said Lino Massafra, VP of Sales and Marketing at NAI. "They particularly like the low power dissipation and the Built-In-Test features."

North Atlantic Industries

North Atlantic Industries (NAI) is a leading independent supplier of Embedded I/O Boards, Power Supplies and Motion Simulation and Measurement Instruments for the Military, Aerospace and Homeland Security Industries. NAI provides the highest quality COTS and Custom products in Commercial, Extended Temperature and Rugged versions. Information about NAI and its products can be found at www.naii.com.

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Photo Attached

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