



The High-Performance Alternative

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FOR IMMEDIATE RELEASE

2-channel Synchro/Resolver Interface Boards for UEI's PowerDNA Cube and PowerDNR RACKtangle

Walpole, MA (November 12, 2009) — United Electronic Industries (UEI) is pleased to announce the release of the DNx-AI-255 Synchro/Resolver interface boards. The boards are available in two models — one for use with UEI's popular PowerDNA Cubes and another for rack-mounting in a PowerDNR RACKtangle or HalfRACK chassis. Multiple operating modes ensure compatibility with all standard sensor wiring and excitation configurations, making the boards suitable for a very wide range of rotational position or motion applications. Each board has two fully isolated, synchro/resolver channels with independent A/D converters, and each channel offers 16-bit resolution, ± 2.6 arc-minutes accuracy, and scan rates up to 4000 Hz.

A key feature of the new boards is the ability to operate either as a synchro/resolver input interface or as a simulation output device — on a per channel basis. Each of the channels may be configured either as a synchro/resolver input with internal or external excitation or as a synchro/resolver simulated output. Each simulated output may be used as a software-controlled input stimulus for an avionics test system or flight simulator.

Each channel may be configured to output 50 Hz to 4 kHz excitation voltages to the primary of a synchro/resolver device or alternatively as the simulated output voltage from the secondary of a synchro/resolver. In simulator mode, the board uses a software-defined value as the position input for a simulated device.

The DNx-AI-255 is fully supported by UEI's comprehensive software suite, which includes factory written support for all popular operating systems (e.g., Windows, Linux, VxWorks), programming languages (e.g., C, C# and VB .NET) and application packages such as LabVIEW, MATLAB, and DasyLAB.

“The ability of the new AI-255 to operate either as a synchro/resolver input interface or as a simulated output is very powerful and opens up a whole new range of applications.” said UEI President Shaun Miller. “In addition to the exceptional performance of the new board, no other vendor offers the flexibility of UEI's Cube and RACKtangle form factors and Ethernet Slave, Data Logger, Programmable Automation Controller, or Simulink target deployment options.”

Pricing and availability

DNA-AI-255	For Cube based systems	\$3500
DNR-AI-255	For RACKtangle or HalfRACK systems	\$3650

About the "Cube"

UEI's powerful "Cube" architecture is a compact (4 x 4 x 4" or 4 x 4 x 5.8") Ethernet based I/O platform. It may be deployed in four different configurations. These are: 1) Ethernet I/O systems slaved to a host PC, 2) Stand alone Data Logger/Recorder, 3) Linux-based Programmable Automation Controller (PAC), or 4) Modbus TCP based I/O slave. Each Cube consists of a core module (that holds the processor and network interface) along with three or six open I/O slots. Users select the deployment option that meets their requirements. Users then match the Cube's I/O configuration to their application by selecting the appropriate boards. With over 25 I/O boards available, there's sure to be a configuration to meet almost any application requirement. The six slot Cube provides up to 150 analog inputs, 192 analog outputs, 288 digital I/O, 48 counter or quadrature channels, 72 ARINC-429 channels, 24 Serial or CAN-bus ports, or 12 1553 channels. A full description of the "Cube" is available at <http://www.ueidaq.com/>

About the (12-slot) RACKtangle and (6-slot) HalfRACK

UEI's popular rack-mounted chassis provide convenient, front-loading, easily-serviced, multi-slot, 3U enclosures for the complete range of UEI I/O modules. Both products provide two Gigabit (1000/100/10 Base-T) Ethernet ports with independent IP addresses that can be used either for communication or diagnostic purposes. Passive backplanes with no active electronic components ensure an almost unlimited MTBF for both models, and since all active components are mounted on easily replaceable I/O modules, an extremely short MTTR (mean time to recovery) can be achieved. A 12-slot RACKtangle can handle up to: 300 analog inputs, 384 analog outputs, 576 digital I/O, 96 counter or quadrature channels, 154 ARINC-429 channels, 48, serial or CAN-bus ports, or 24 MIL-STD-1553 communication bus ports. A 6-slot HalfRACK handles half as many. Click <http://www.ueidaq.com/> for a full description.

About UEI

Founded in 1990, UEI is a leader in the PC/Ethernet data acquisition and control, Data Logger/Recorder and Programmable Automation Controller (PAC) markets. UEI's I/O "Cube" is a compact, rugged platform, ideal for DAQ, Logging, and control applications in a wide range of applications and industries such as automotive, aerospace/aviation, unmanned vehicles, appliance test, simulator control, in-vehicle test, wind and solar power system control, semiconductor manufacturing, medical equipment, and more. UEI offers both COTS and custom products to OEMs, end-users and systems integrators worldwide. With analog, digital, counter, CAN-bus, Serial I/O, ARINC-429 I/O and more, UEI will have the interface you need. UEI supports all popular Windows, Vista, Linux and Real-time operating systems, programming languages, and application packages such as LabVIEW, MATLAB, and DASyLab.

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