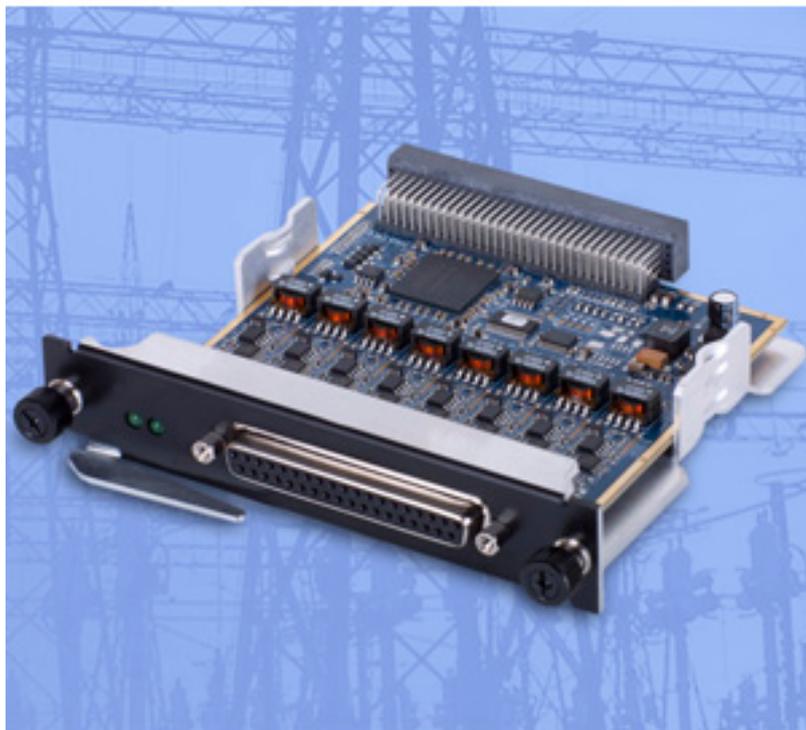


## **Analog input boards boast 24-bit A/D resolution and 120 kilosample/second maximum sampling rates**



United Electronic Industries (UEI) announces the release of four new analog input boards. All four of the boards offer 8 analog input channels, 24-bit A/D resolution and 120 kilosample/second maximum sampling rates. All four boards also offer complete, 350 Vrms channel-to-channel and channel-to-chassis isolation. The DNR versions are for use with the company's RACKtangle chassis, while the DNA versions are designed for installation into the PowerDNA Cube chassis. The DNx-AI-218 offers a  $\pm 10$  VDC input range suitable for most general purpose DAQ measurements while the DNx-AI-228-300's  $\pm 300$  VDC input range makes it an ideal solution in a host of high voltage applications including battery testing, power plant monitoring, aircraft power monitoring and more.

The boards provide simultaneous sampling and each channel is based on its own oversampled SAR converter. Input gains of 1, 2, 4, 8, 16, 32 and 64 are fully software programmable. A diagnostic input mode flags open circuited connections and overvoltage conditions. The boards also go into a high impedance mode when power is removed, making them ideal for high reliability, redundant monitoring application

Software included with the DNx-AI-218 and 228-300 provides a comprehensive yet easy to use API that supports all popular Windows programming languages. UEI also provides factory written drivers for all popular non-Windows operating systems

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including QNX, VxWorks, RTX, InTime, and more. Finally, the UEIDAQ Framework supplies complete support for those creating applications in data acquisition software packages such as LabVIEW, MATLAB/Simulink, DASyLab or any application which supports ActiveX or OPC servers.

### Pricing

DNR-AI-218	±10 V input for RACKtangle chassis	\$1750	Delivery 4-6 weeks
DNA-AI-218	±10 V input for Cube chassis	\$1750	Delivery 4-6 weeks
DNR-AI-228-300	±300 V input for RACKtangle chassis	\$1750	Delivery 4-6 weeks
DNA-AI-228-300	±300 V input for Cube chassis	\$1750	Delivery 4-6 weeks

### About "Cube" and RACKtangle

UEI's powerful "Cube" and RACKtangle I/O chassis are rugged, compact and offer unsurpassed flexibility in a host of data acquisition, data logging and embedded control applications. Cubes are available in 3 and 6-slot version where each slot accommodates an I/O board. The three slot Cube is 4 x 4 x 4" while the six-slot cube measures a mere 4 x 4 x 5.8". RACKtangles are standard 5U high, and are available with either 6 or 12 I/O slots. The chassis may be deployed in five different configurations. These are: 1) Ethernet I/O systems where the application runs on a host PC and the chassis serves as a simple I/O slave, 2) Stand alone Data Logger/Recorder which requires no connection to a PC and stores data on SD cards up to 32 GByte, 3) Linux-based Programmable Automation/Embedded Controller (PAC) where the system runs completely stand-alone based on a user written Linux program, or 4) Simulink I/O model that can run Simulink models hosted on a PC, or may run standalone with Simulink models downloaded to the chassis, 5) Modbus TCP based I/O slave. Each chassis consists of a core module (that holds the processor and network interface) along with three to 12 open I/O slots. Users select the deployment option that meets their requirements. Users then match the chassis I/O configuration to their application by selecting the appropriate boards. With over 40 I/O boards available, there's sure to be a configuration to meet almost any application requirement. I/O boards include analog in (including Vin, Iin, ICP/IEPE, LVDT, Synchro, TC, RTD, etc.), analog out, digital I/O, counter/timer, RS-232/485, ARINC-429 or 708, MIL-STD-1553, AFDX and many more. A full description of the system is available at [www.ueidaq.com](http://www.ueidaq.com) [1].

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### Links:

[1] <http://www.ueidaq.com>