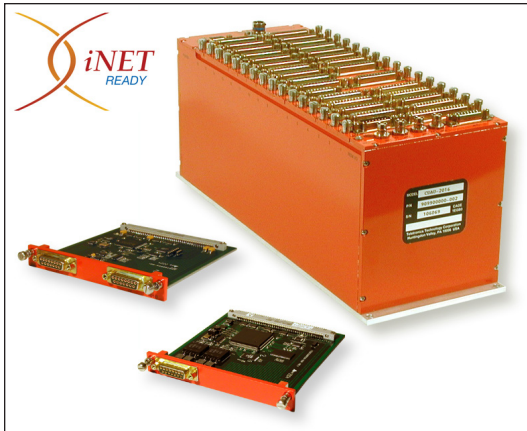


## Network Data Acquisition and Encoding Unit



### Applications

- Flight test instrumentation
- Acquisition unit
- Air vehicle test, certification, or development
- Ethernet-based network distributed systems
- System safety monitoring

### Features

- Network-based data acquisition and encoding unit
- Includes Fast Ethernet 100BASE-T port for:
  - Acquisition setup and configuration
  - SNMP status and control
  - Acquisition data transport
  - Time synchronization using IEEE 1588 time
- nDAU-2016 accepts up to 16 high-performance signal conditioning modules
- User-programmable format and sample sequence and programmable simultaneous sample
- Plug-in modularity and expandability:
  - Signal conditioning
  - 1553 monitor/RT/bus controller
  - Avionics interfaces
- Supports IEEE 1588 for acquisition of coherent global timing information over the network fabric
- Unit includes 64 Mbytes of Flash, 32 Mbytes of RAM, a PowerPC® processor that allows future implementation of web pages, and engineering unit conversion on selected acquisition data channels
- Acquisition bandwidth of up to 1.25 MSPS
- Fully programmable operation

### Description

The nDAU-20XX is a network-based data acquisition and encoding unit. It is designed to interface with a variety of analog and digital sensors and avionic data sources. The system is reconfigurable to handle additional channel inputs or to accommodate other types of data via plug-in modules. The unit delivers packetized data to the Ethernet-based network for recording, display, telemetry and processing purposes. The unit is fully programmable over the network and supports SNMP for status and control. The nDAU-20XX is fully compatible with IEEE 1588 to synchronize to the network clock for data time-tagging.

Revision 03/03/2011

### nDAU-20XX Datasheet

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Specifications subject to change without notice.

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Management System  
AS9100C  
ISO 9001:2008