

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 09/27/2010

nDAU-20XX Datasheet

©2010 Teletronics Technology Corporation
Specifications subject to change without notice.



Teletronics Technology Corporation
15 Terry Drive, Newtown, PA 18940
phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

www.ttcdas.com