The daqNet is an autonomous high speed acoustic data conversion solution ideal for today’s network-centric environment. It provides data connections and control capabilities by means of dual Gigabit Ethernet interfaces within a 1U form factor. With its plug and play capabilities, the daqNet can be connected to the network, configured with the sample application provided, and the connection tested through hardware-implemented ADC/DAC test channels.

The daqNet has been optimized to provide high performance, high-speed signal conversion for up to 192 channels of analog I/O or 240 channels of digital I/O. The redundant dual Gigabit Ethernet is easily configurable utilizing SNMP protocol and is available in traditional network protocols. The daqNet is customizable using any combination of up to four I/O modules - analog input, analog output or digital I/O. Each digital I/O module provides immediate external signal and time-based trigger capabilities.

An unlimited number of daqNet servers and channels can be synchronized using Abaco Systems' Sensor Processing's time stamping technology. Each daqNet supports master/slave configuration for redundancy in the event of a failure. The system can be optionally provided with an external A/D sampling clock, sync and trigger for enabling A/Ds and digital I/Os.

A Software Development Kit (SDK) included with the product provides a host API and sample applications intended to run on a PC or other Intel platform. It is compiled to run under either Windows XP or Linux and includes full source code in 'C' language.
daqNet  Acoustic Data Conversion System

Specifications

I/O specifications
- Front panel dual Gigabit Ethernet (1000 Base-T) SNMP-configurable and network protocol compliant (mod jack)
- Front panel external clock, trigger, sync and ADC/DAC test channels (BNC)
- Four rear panel AI/AO/DIO modules supporting up to 240 channels (D-Submin)

Environmental
- 0°C to +50°C Celsius operating temperature
- General Specifications
- Compact rack-mount 1U chassis
- Forced air cooled
- Application code and flexible API provided for user configuration
- Multiple chassis sampling and trigger synchronization (D-Submin)
- Front panel LED indicator and rocker type power switch
- Software Development Kit (SDK) for host (PC or other Intel platform) running under Windows or Linux

Ordering information

daqNet-100  Acoustic Data Conversion System, 192-channel analog input
ndaqNet-101  Acoustic Data Conversion System, 192-channel analog output
ndaqNet-102  Acoustic Data Conversion System, 96-channel analog output, 120-channels of digital I/O
ndaqNet-103  Acoustic Data Conversion System, 144-channel analog input
ndaqNet-104  Acoustic Data Conversion System, 144-channel analog output
ndaqNet-105  Acoustic Data Conversion System, 96-channel analog input
ndaqNet-106  Acoustic Data Conversion System, 96-channel analog output
ndaqNet-107  Acoustic Data Conversion System, 48-channel analog input
ndaqNet-108  Acoustic Data Conversion System, 48-channel analog output
ndaqNet-109  Acoustic Data Conversion System, 96-channel analog input, 96-channel analog output

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