

NetDAS

Internet Data Recorder/Transmitter

1245 Bridger Hills Drive
Bozeman, MT 59715 USA
www.daqsystems.com
+1-406-586-8028

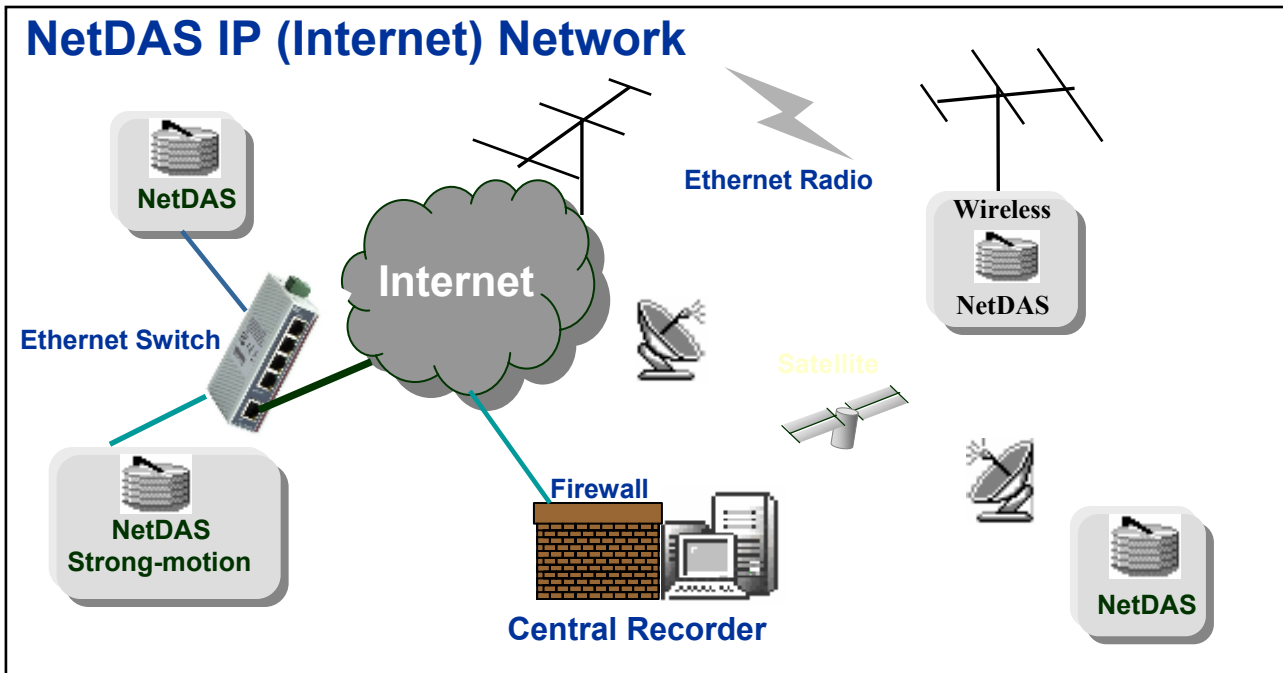
NetDAS is a rugged 24-bit data logger, event recorder and transmitter based on open industry-standards, commercially available CPU cards and the Internet. Software is configurable to simultaneously send data to multiple clients, record continuously or in triggered mode to local storage. NetDAS can be ordered with an internal accelerometer and supports embedded Linux (eLinux) 2.6 or embedded Windows® XP (eXP). For high channel count applications NetDAS can run on a rack-mount industrial server.

Applications and features

- Earthquake and volcano monitoring
- LNG and industrial seismic alarms
- Strong-motion recorder for tall buildings
- Operates on existing local area networks
- High security – SSH and SFTP
- Low latency for early warning/shutdown
- Low power XScale® embedded Linux CPU
- Optional embedded Windows® XP



NetDAS IP (Internet) Network



Specifications

ADC	120dB (24-bit resolution), USB, 4 channels/board
CPU	Titan (XScale, eLinux), MSM800SEL (Geode LX800, eXP)
Filtering	Linear phase low-pass FIR, 3dB @ 30% Nyquist
Channel count	4 – 12, 10 – 960 samples/sec/channel (up to 32 with rack-mount server)
Sampling skew	None (one ADC/channel)
Full scale	+/- 20 volts (200k-ohm input impedance)
Software gains	X2 – X16
Triggers	Level; average (STA/LTA), common wire, network message
Timing accuracy	100us (GPS synchronized)
Pre/post event time	600 seconds/unlimited
Latency	20 samples (~250 ms at 100 Hz sampling)
Ports	Ethernet (RJ45), optional Wireless
Removable storage	4 - 16 GB CF (eXP), 2GB hot-swappable Secure Digital (SD)
Accelerometer (option)	120/110 dB, automatic programmable self-test, 3g/4g full scale
Data formats	SEG-Y, MATLAB, SEED, SAC, SUDS, GSE, ASCII
Auxiliary I/O	Digital I/O; 10-bit analog; 4—20-mA current loop (option)
LED Indicators	RUN and Event (option)
Network interfaces	<i>SSH, SFTP</i> (eLinux), <i>Remote Desktop</i> (eXP)
Software support	<i>NetDAS Tools</i> (GRF formatter, Trigger, Viewer, Logger, Hub)
Operating systems	<i>Microsoft Windows® XP</i> and <i>Linux</i> (2.6 kernel)
Environmental	IP64 (IP65, IP66 option), -20 to +60 (Linux), +50 (eXP) degrees C
Size	8(L) X 9(W) X 7(H), inches or 20(L)X23(W)X18(H), cm
Weight	15 lbs/7 kg
Power	3 – 3.5 watts (eLinux), 9.5 watts (eXP), 9 – 15 VDC input (optional 12AH battery backup)

Sales and Contact Information

DAQ Systems, Bozeman, MT, USA
Voice: 406-586-8028 Fax: 406-586-8028
Email: inquiry@daqsystems.com
www.daqsystems.com