

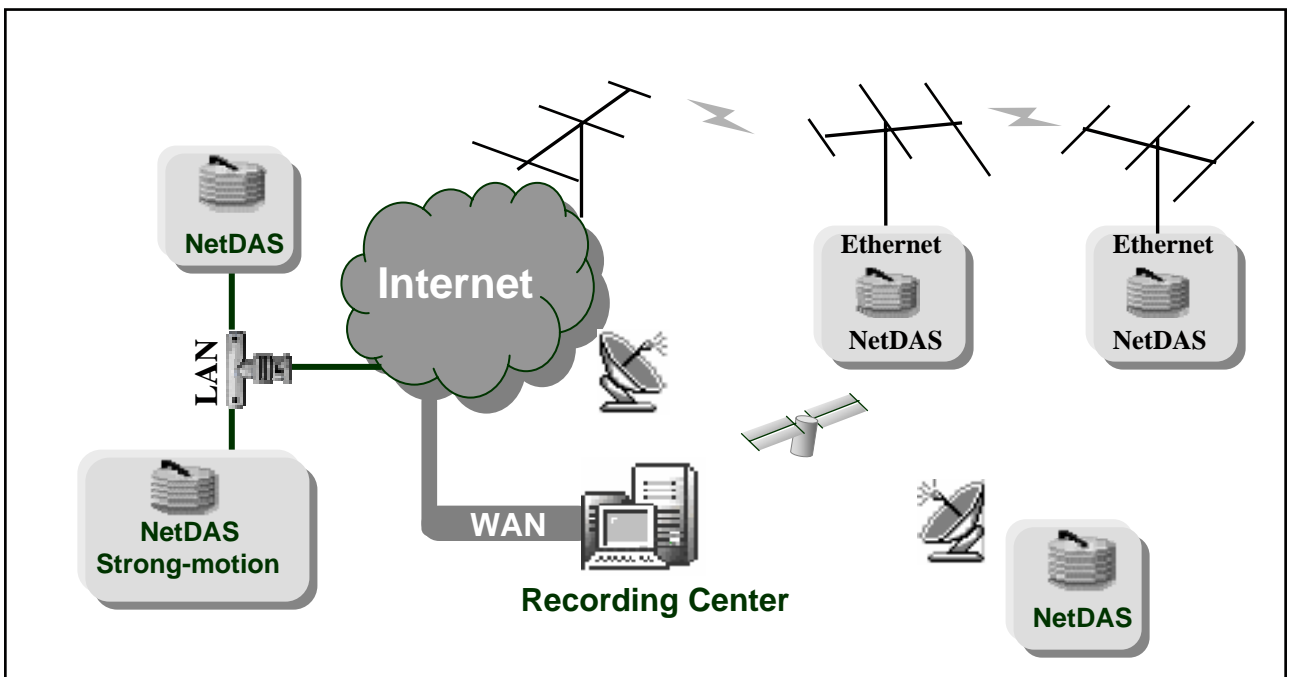
NetDAS

Internet Data Recorder/Transmitter

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



Specifications

| | |
|------------------------|--|
| ADC | 120 dB (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 | 250 us (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), 2-GB hot-swappable Secure Digital (SD) |
| Accelerometer (option) | 120/110 dB, automatic programmable self-test; +/- 3-g/4-g 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 |
| Network interfaces | SSH, SFTP (eLinux), Remote Desktop (eXP) |
| Software support | NetDAS Tools (GRF formatter, Trigger, Viewer, Logger, Hub) |
| Operating systems | Microsoft Windows® XP and Linux (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) X 23(W) X 18(H) cm |
| Weight | 15 lb or 7 kg; |
| Power | 3—3.5 watts (eLinux), 9.5 watts (eXP), 9—15-VDC input (optional 12AH battery backup) |

Sales and Contact Information

Strand Earthquake Consultants, Los Angeles, CA, USA
Voice: +1-310-473-2316
Email: strandearth@aol.com
www.strandearthquake.com