

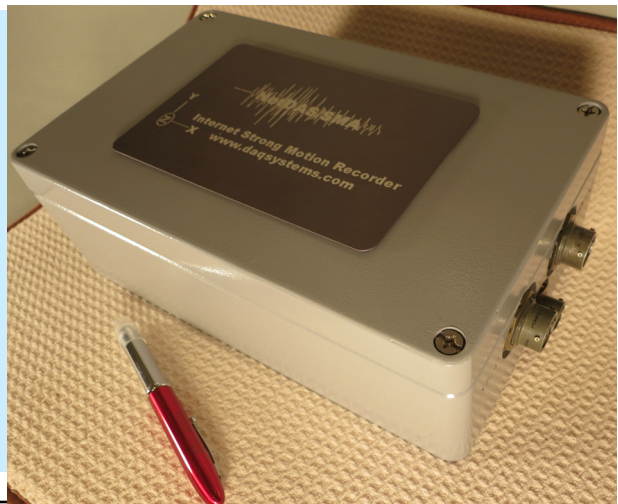
NetDAS/eLinux Embedded TCP/IP Data Acquisition

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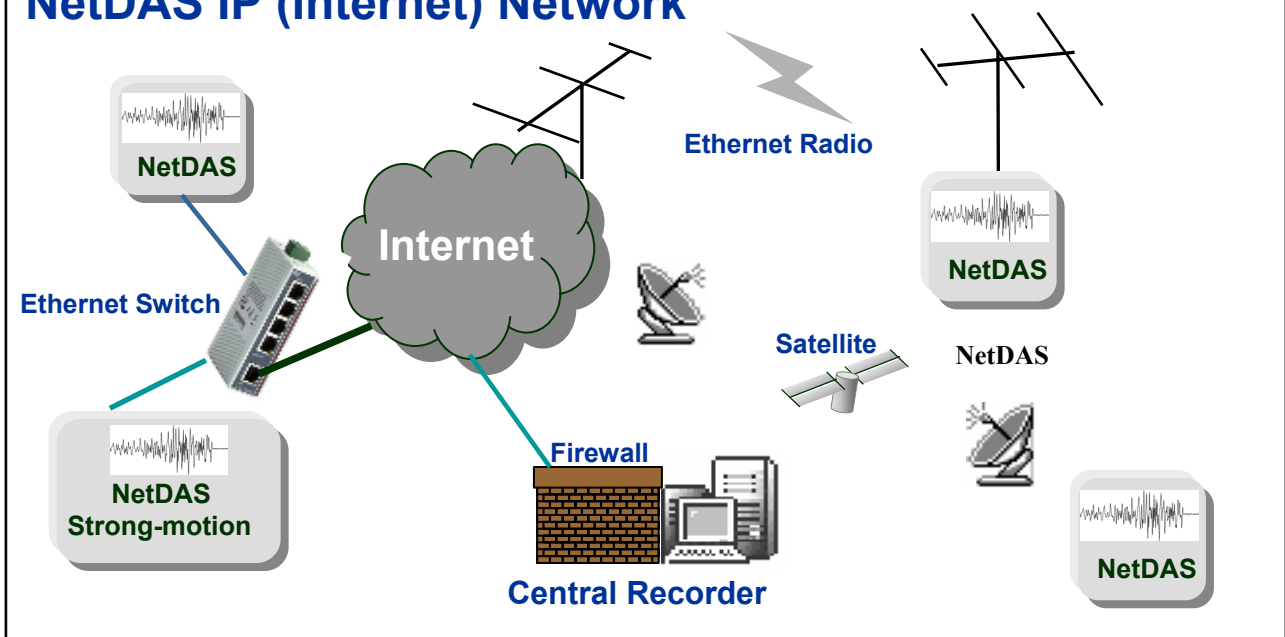
NetDAS/eLinux (embedded Linux) is the third generation of the rugged NetDAS 24-bit data acquisition system based on TCP/IP, USB, GPS, ARM CPU and the client/server architecture. Software is configurable to send data to multiple clients, record in multiple triggered modes, format and concentrate data streams and provide real-time display. For high channel count applications NetDAS can run on a rack-mount industrial server under the Microsoft Windows® or Ubuntu Linux operating systems.

Applications and features

- Industrial data acquisition
- Distributed sensor networks
- Seismic alarm and warnings
- Seismic and strong-motion networks
- State-Of-Health for large structures
- Low latency for early warning/shutdown
- Low power Vybrid® SODIMM Linux CPU
- Linux 3.0 kernel



NetDAS IP (Internet) Network



Specifications

ADC	120dB (24-bit resolution), USB, 4 channels/board
CPU	Vybrid® SODIMM ARM
Filtering	Linear phase low-pass FIR, 3dB @ 30% Nyquist
Channel count	4 – 12, (16 - 32 with rack-mount server)
Sampling rates	10 – 1000 samples per second
Sampling accuracy	No skew (one ADC/channel)
Full scale input	+/- 20 volts (+/-10 volts, XR option)
Input impedance	218 k-ohms (88 k-ohms, XR option)
Triggers	Level; average (STA/LTA), common wire, network message, OBE
Timing accuracy	10µs (GPS synchronized), typical
Pre/post event time	unlimited
Latency	20 samples (~250 ms at 100 Hz sampling)
Noise floor, 100 Hz	3 counts RMS (5 counts RMS, XR option), typical
Noise floor, 1000 Hz	30 counts RMS (10 counts RMS, XR option), typical
Removable storage	16 - 64GB microSD
Accelerometer (option)	130 or 70 dB dynamic range, automatic programmable self-test (5g or 3g 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)
Software support	<i>NetDAS Tools</i> (GRF formatter, Trigger, Viewer, Logger, Hub)
Operating system	Linux 3.0 Kernel
Environmental	IP64 (IP65, IP66 option), -20 to +60 deg C
Size	10(L) X 6(W) X 4(H), inches or 26(L)X16(W)X9(H), cm
Weight	3 kg (7 lbs)
Power	2.5 watts, 9 – 20 VDC input (optional 14AH battery backup)

Sales and Contact Information

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