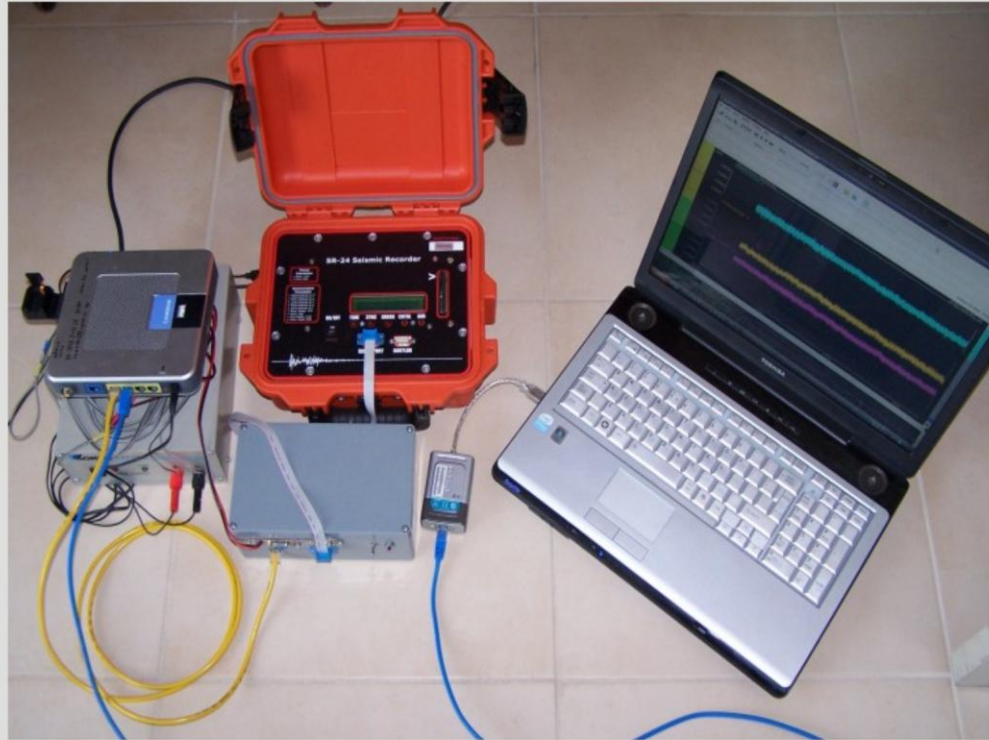


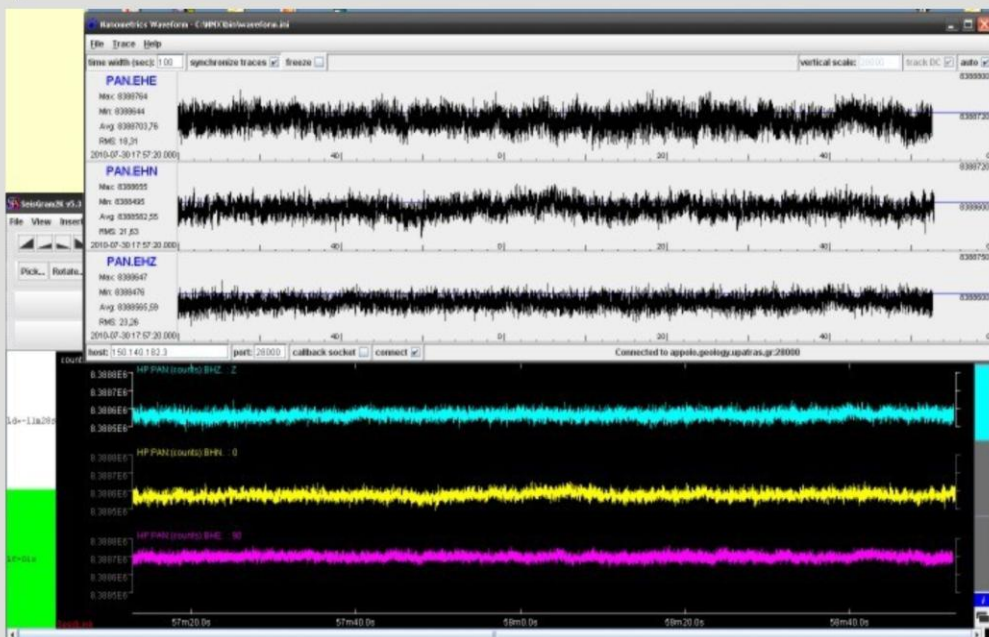
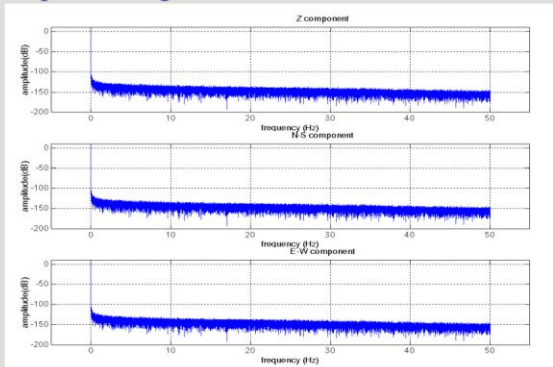


SR-24: Low Power, 24bit SEEDlink Seismic Station

- 24 bit digitizer
- Low power consumption
- Removable Compact Flash
- GPS time accuracy
- 1-500 samples per second
- 3 input channels
- Continuous Recording Mode
- Seiscomp plugin
- Rugged Waterproof Housing
- Operation Range: -20 +70°C
- GSM/GPRS/VSAT/DSL/WiFi
- LDC screen
- Serial Data Port
- Ethernet Data Port



The SeedlinkSR-24 seismic station consists of a combination between the SR-24, 3channels 24 bit digitizer, and an ARM embedded PC running Embedded Linux. The open source Seiscomp/Seedlink software has been compiled for the ARM-Linux operating system, and has been installed to the flash memory of the PC. Because of the use of an ARM based embedded PC, the power consumption is very low, allowing the system to be running for a long time powered by a simple 12V/55Ah battery. The SR-24 digitizer has 3 input channels, and capability for connection to a wide range of sensors. The digitizer is based on a powerful, wide dynamic range delta-sigma analog-to-digital converter, with very low noise characteristics and excellent power supply rejection. The sampling rate can be set to 1, 5, 25, 40, 50, 60, 100, 125, 150, 200, 250, 300, 400, and 500 samples per second. The embedded PC provides ethernet port. Configuration as well as communication with the unit is done using the ethernet port. Real time telemetry can be achieved connecting the instrument with any communication device like GSM modem, satellite modem UHF spread spectrum modem, wireless ethernet bridges...and many more. The station communicates with any seedlink server implementing a reliable real time seismic station, while the overall cost remains low.



The Real time seismic data can be imported in many other commercial acquisition software like the Nanometrics "NaqsServer" So the seismic data can be integrated in any real time seismic network.



Instrument Characteristics

DIGITIZER	
Number of Channels	3
A/D Converter	Sigma –Delta, 312kHz base rate, 24bits resolution
CMRR	Better than –100dB
Input resistance	500kOhms, differential 1MegOhm
Sample rate	1 – 1000 samples per second on discrete steps.
Power	9 – 18Vdc
RMS noise	130dB @ 100sps 140dB @ 50sps
Input voltage	+/-40Vp-p, +/-10Vp-p, +/-1Vp-p differential
RECORDER	
Media	Removable Compact Flash Card.
Data File Format	MiniSEED
Recording Mode	Continuous
INTERFACES	
Number of Digitizers	1
Serial Ports	One terminal serial port
I2C interface	I2C controller supporting standard mode(100kbits/s) and fast mode(400kbits/sec)
Ethernet Port	Lan 10/100Tx ethernet port
USB ports	Dual USB 1.1 port(optional)
LCD	2 X 20 Characters LCD display
COMMUNICATION	
Protocol	SeisComP/SeedLink
Type	FTP, webDRM, e-mail
TIME BASE	
Type	12 channels GPS receiver
Accuracy	Time: +/-1usec to UTC time pulse, +/-5 meters to position
PHYSICAL	
Size (mm)	300 X 249 X 196
Weight(kgr)	3.5
ENVIRONMENT	
Temperature Range(°C)	-20 to +70
Humidity	100% - IP67 enclosure