

Introducing

Qantix Q8

The Most Capable Data Acquisition System



Features and Benefits



Qantix Q8

History

Quanterra, Inc., a Division of Kinemetrics, Inc., co-invented the seismic broadband technology in the 1980s together with Wielandt and Streckeisen.

Thousands of Quanterra® dataloggers in operation worldwide.

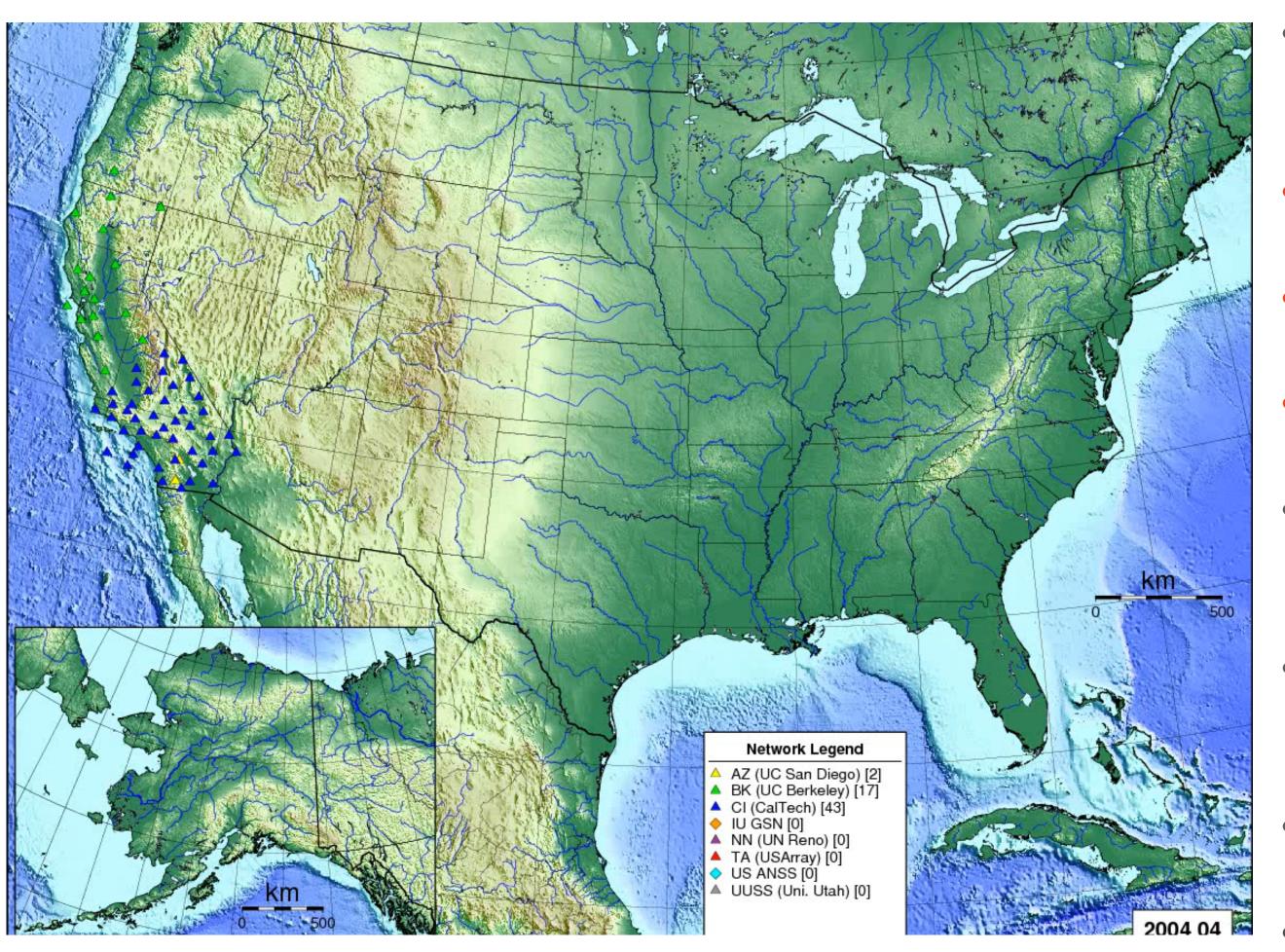
Quantix = The latest family of Quanterra® datalogers.

Q8 = The first member of the Qantix family



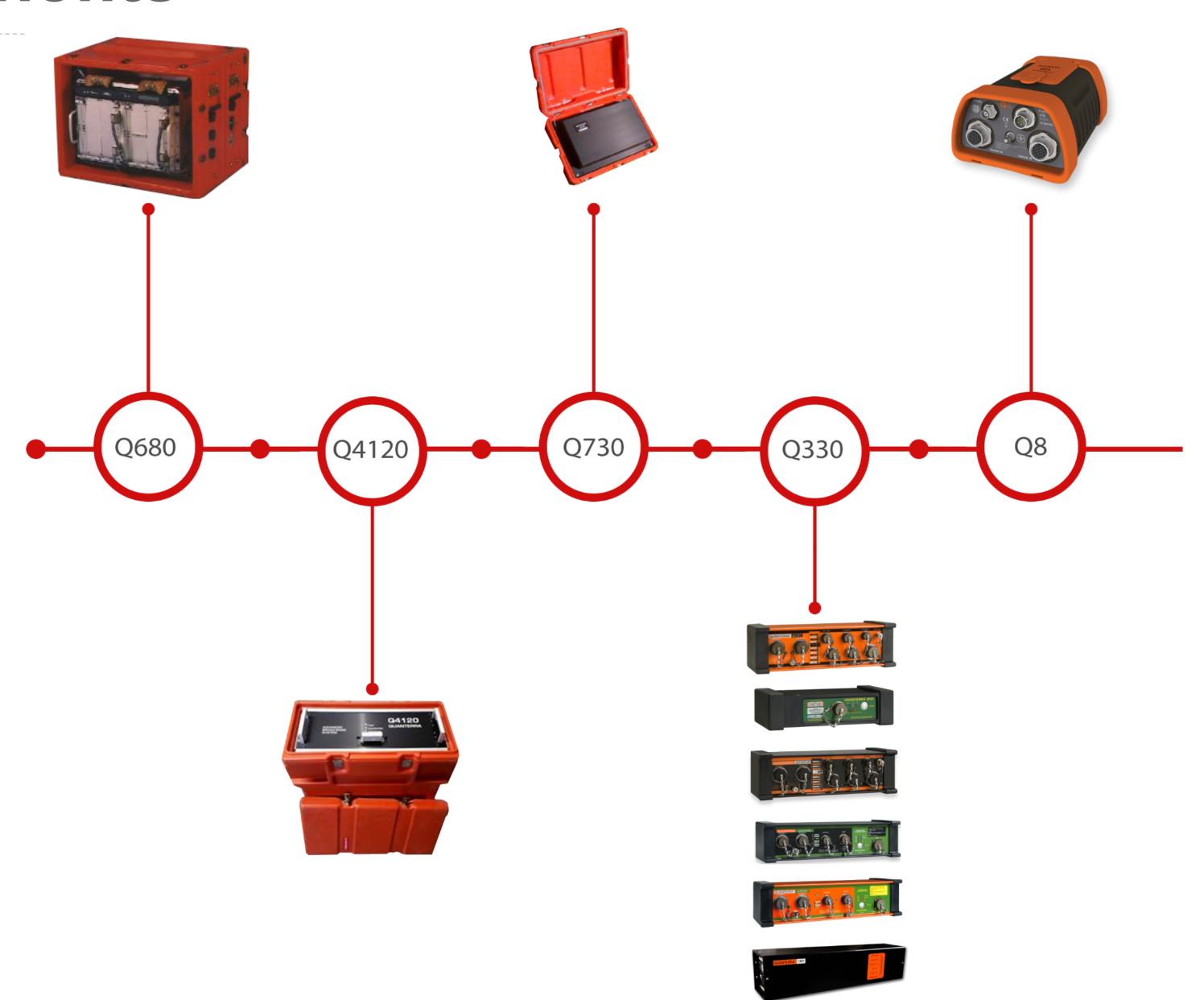
The most successful seismic network ever

The Antelope & Quanterra-based USArray/TA



- The most "epic science project of humankind of the last 15 years" (*Popular Science Magazine*)
- ~ 450 stations totaling 23,000 channels (including SOH)
- Antelope Data Acquisition Platform
- 99.5% data availability
- 5 commissioning/decommissioning cycles per station: huge metadata handling effort for ~2,000 installations!
- The 6th cycle moved the array (~200 stations) to the "dark and cold" Alaska (installation completed)
- Posthole broadband sensor installations, 70% STS-5
- More than 130 Ph.D. dissertations and 250 peerreviewed papers published

An Evolution Process
An Outstanding
Pedigree



- 6 x 24-bit channels
- 7th 24-bit channel to loopback calibration signal
- 6 x 16-bit auxiliary channels
- Built-in ±2g MEMS 3-comp. accelerometer
- 142 dB full RMS sinewave to RMS noise*
- 145 dB Enhanced low noise mode & and low-thermal drift (for 3 channels only)

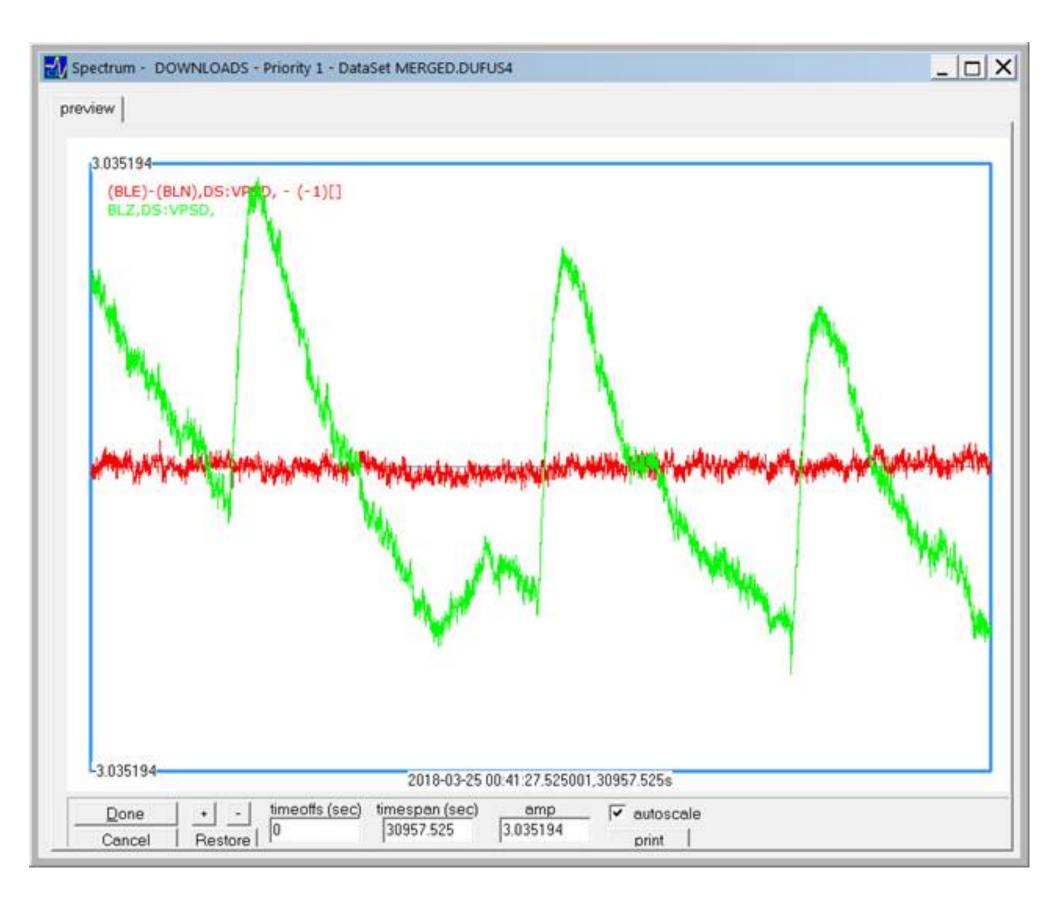


- Low power <300mW (for 3 channels, no telemetry); light weight <1kg
- Small footprint: 7.5 X 5.5 X 3.5in
- Fully specified from -40°C to +60°C
- Over 50 State-of-Health channels including temperature, voltages, currents, GPS status, Sensor boom position
- 1...4,000 sps; gain x1...x512



Unique Feature

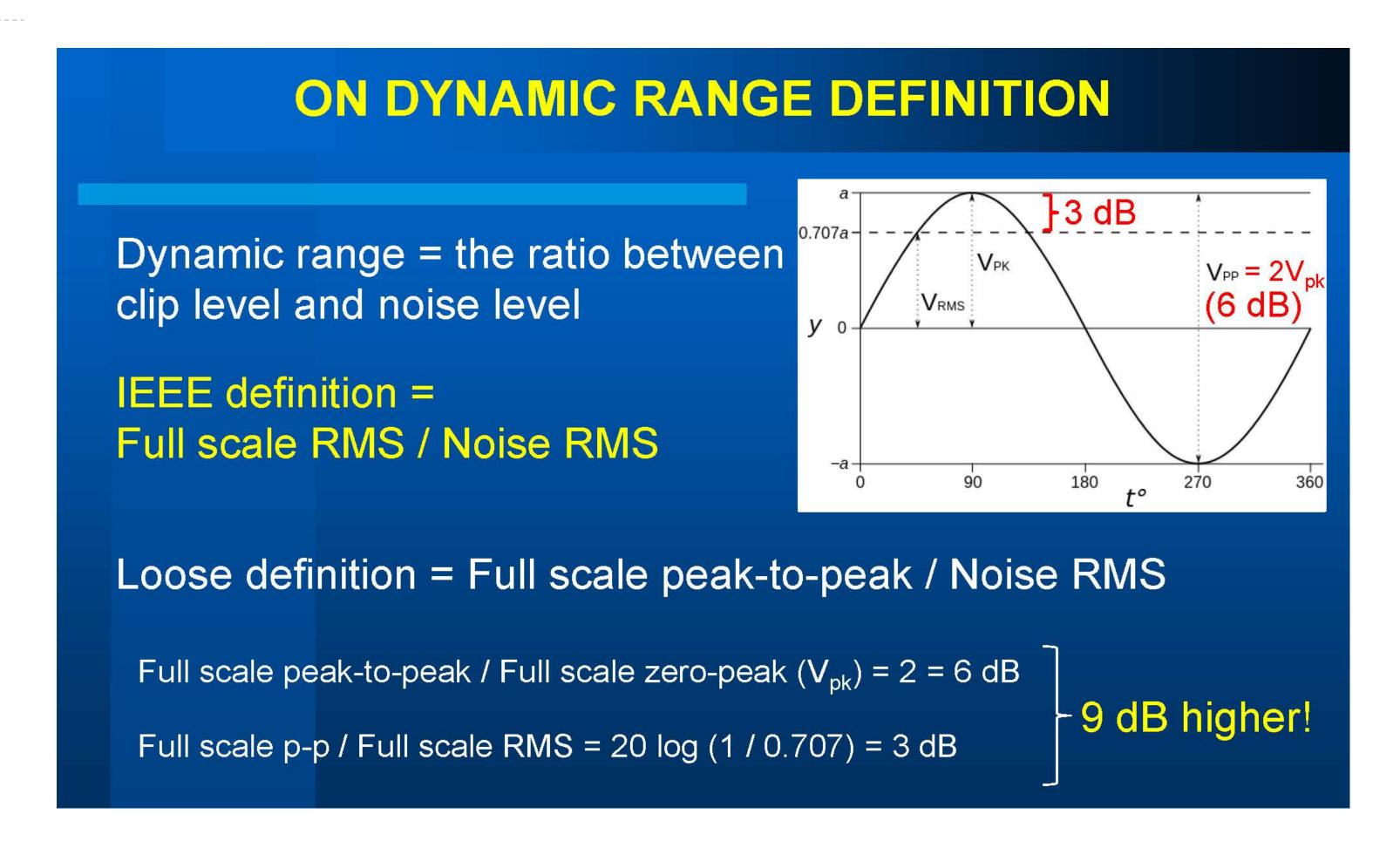




- The red trace is a Q8 low-thermal drift channel, the green trace is a standard channel.
- The data are acquired in a typical building environment over a period of 9 hours, with the HVAC system cycling every few hours, resulting in several deg. C variation.

Dynamic Range Revisited

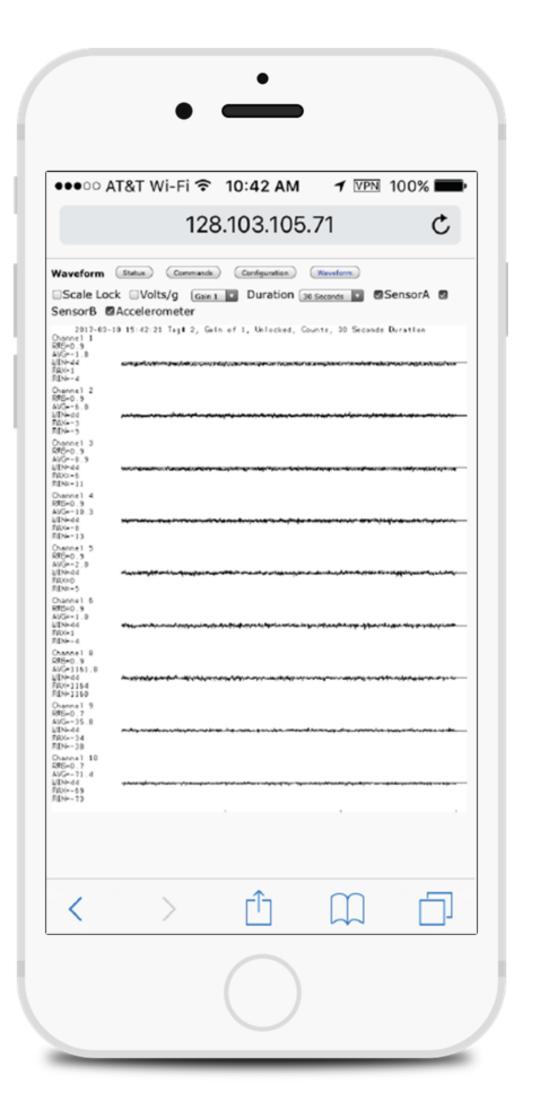
For the record...Kinemetrics uses the IEEE definition

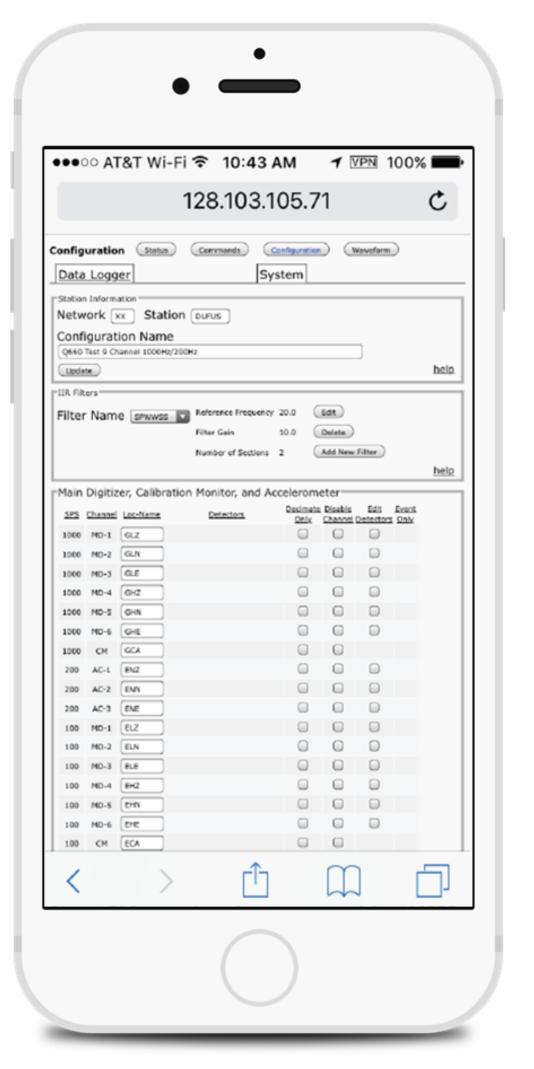


^{*} we do not inflate our performance claims, using a non-standard specification.

Qantix Q8 – The Datalogger of the Future

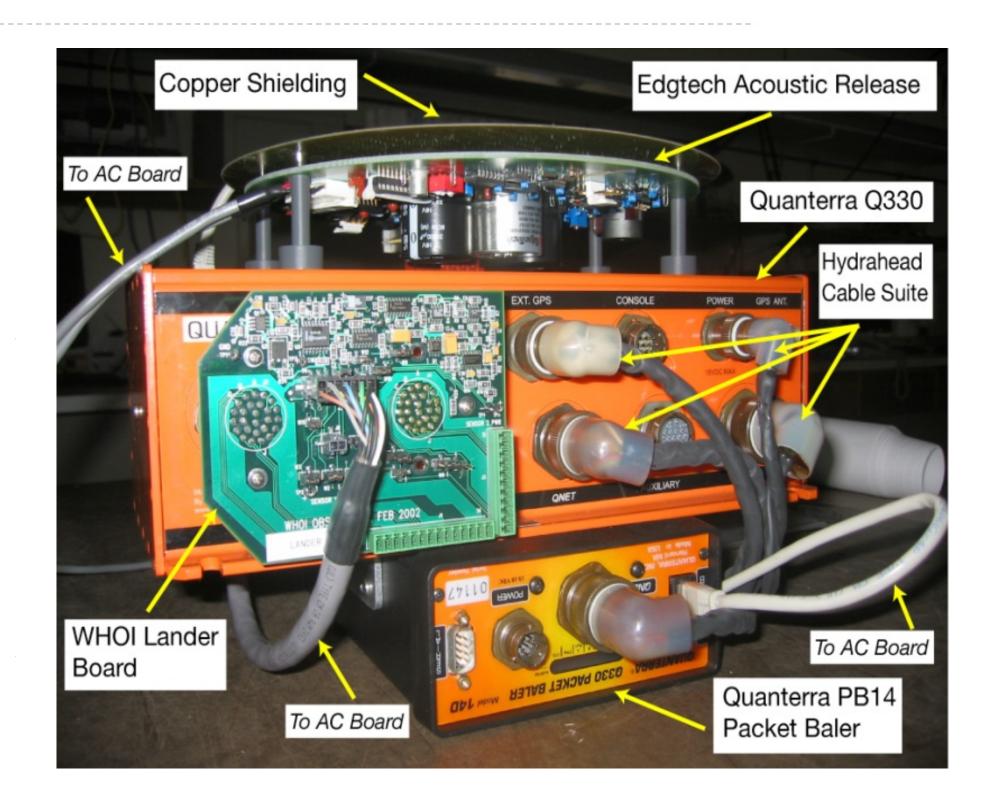
- WiFi, Ethernet and Mesh communication interfaces
- Multiple High-Integrity Storage Media (internal 32GB eMMC, and removable USB flash drive and SD card up to 256GB)
- Web-based management
- Universal serial sensor interface
- GNSS timing or external timing via RS-485
- Streaming low-latency (<1s) data packets for EEWS applications
- Antelope backward compatibility
- Feature-packed, higher-performance replacement of Q330 family digitizers!





Recent Selection: New U.S. OBS Facility @ WHOI

Qantix Q8 – The Datalogger of the Future

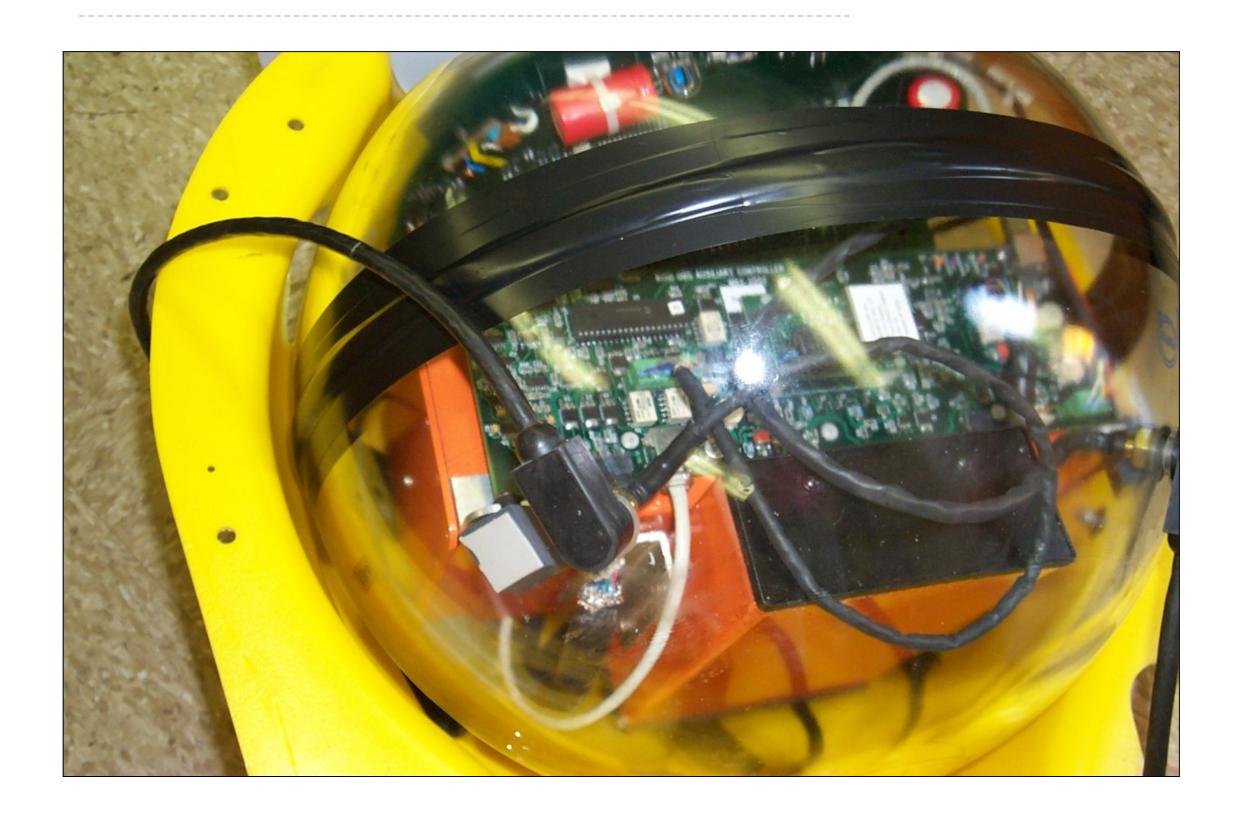


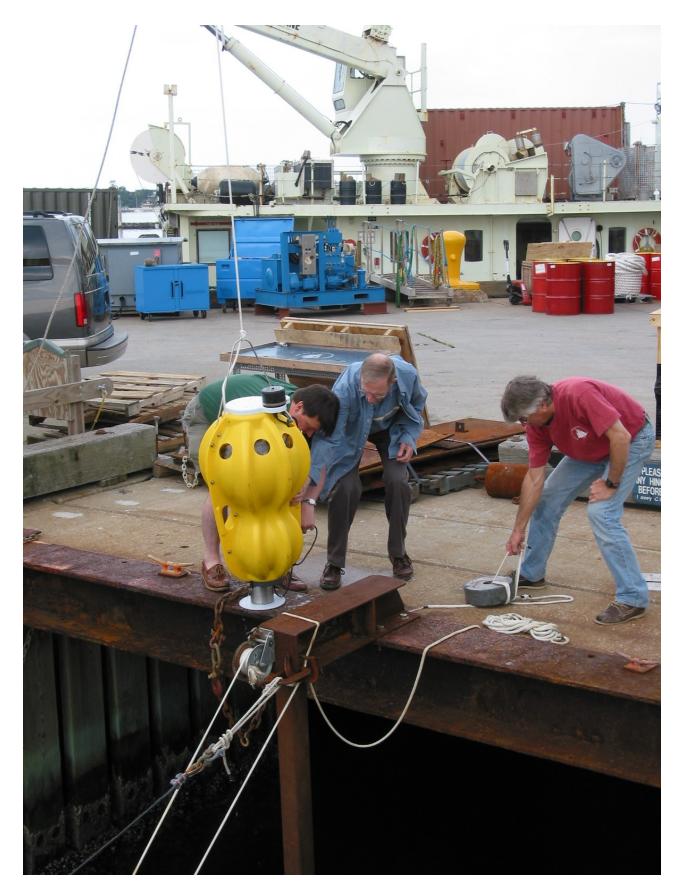


The new OBS facility was awarded to the winner on the basis of the track record established by the Q330, and on the incorporation of Q8 in the future. This illustrates a unique capability, and technological leadership.

Recent Selection: New U.S. OBS Facility @ WHOI

Qantix Q8 – The Datalogger of the Future





The new OBS facility was awarded to the winner on the basis of the track record established by the Q330, and on the incorporation of Q8 in the future. This illustrates a unique capability, and technological leadership.

Qantix Q8 and MBB-2

"The world's only Broadband Seismic System under 0.5 W"

...and ALL under <4Kg

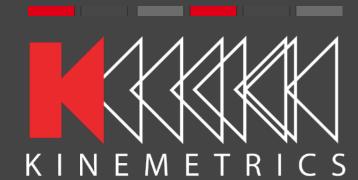
Power in the palm of your hand.



What we do....MATTERS.

Headquarters, Streckeisen, Pfungen – Switzerland Headquarters, Corporate, Kinemetrics, Pasadena, California – USA Office in Switzerland Headquarters, Quanterra, Harvard, Massachusetts – USA Training Center, Vienna – Austria Headquarters, Metrozet, Los Angeles, California – USA Network Operation, Italy Headquarters, BRTT, Boulder, Colorado – USA Network Operation, Denver, Colorado – USA 1/1/1 Office in Japan Office in Abu Dhabi Network Operation, Abu Dhabi Network of over 60 Network Operation, Saudi Arabia representatives worldwide

THANK YOU



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