QUANTERRA Q330

ULTRA-LOW-POWER HIGH RES NETWORK-AWARE SEISMIC



General Description

The Q330 is an advanced, low-cost, IP network-aware very low-power 3-6 channel remote broad-band seismic system incorporating Quanterra's leading, proven broad-band technology. The Q330 includes Quanterra's own patented (US Patent 4866442, Japan Patent 2787445, others pending) <a href="https://distriction.org/linearing-network-netwo

Telemetry...



... and Local Recording



The Q330 supports real-time data telemetry to a central site or connection via hard-wire or radio with burst or continuous transmission to a local low-power recording system.

Low! Power

The Q330 employs low-power technology to achieve all functions with an average power requirement of about 1W, including a power-cycled recorder. These power levels permit effective application in OBS or remote field deployments.

Industry-Standard Protocol: UDP/IP

The telemetry protocol uses industry standard highly-robust stateless UDP/IP (Internet std0006) to communicate with the recording system, enabling the use of off-the-shelf communications equipment.

Comprehensive Sensor Control

The Q330 is a seismological instrument, not a digitizer alone. Sensor control and interface is built in.

The Q330 is designed from the ground up for simple network maintenance and administration.

Specifications

Crossification	Description
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Channels	standard 6-channel Q330-6
Dynamic Range	Approx. 135 dB wideband RMS
Format	32-bit integer, Level 2 compressed 1-second packets
Input Range	40V P-P at gain=1
Gain	Selectable: 1,30
Filtering	Digital, Linear or Minimum Phase.
Sample Rate	200, 100, 50, 40, 20, 10, 1 Other rates available.
Timing	GPS, typical accuracy <0.1msec.
Time Base	Precision TCXO. Phase locked to GPS.
DSP/CPU	ADSP-2189M
Telemetry	Simplex or Duplex with positive acknowledge, sliding window over UDP/IP. SLIP framed on serial. Burst or continuous.
Temperature	Fully specified -20 to +50C Operative -40 to +70C
Sensor Control	Calibrate step, sine, or random. Recenter, on-command
Auxiliary Data	Temp, DC voltage, GPS status, Sensor boom position (6 chan)
Memory	8Mb RAM standard
Network	IEEE 802 10Base-T Ethernet UDP/IP Protocol Stack
Serial Ports	2 serial telemetry and 1 console ports up to 115kbaud.
Wireless	IrDA interface supported.
Time	GPS with antenna + 16m cable.
Power	<1W avg. 12VDC 3-channel
Physical	Sealed, Aluminum, 14 X 4 X 6 in.

Streamlined Remote Administration

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