Quartzlock

Frequency & Phase Analysis

How do *you* measure **stability?**

Highest resolution, lowest noise level

50fs single shot, $5x10^{-14}/s$

A7-MX bb 50kHz–65MHz

Build confidence into your oscillator products and cut oscillator R&D production test cost by 40%!

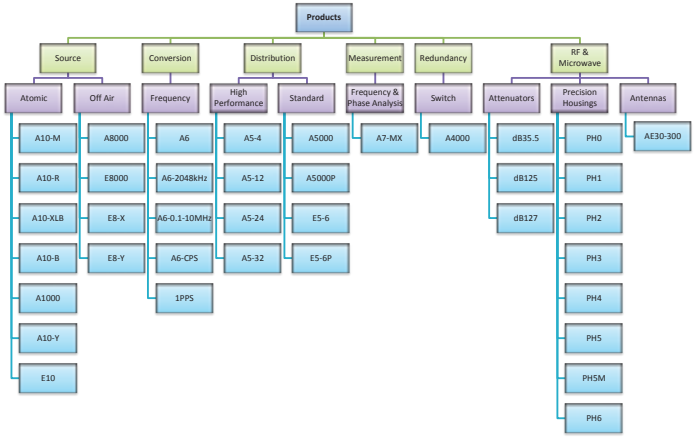
Allan Variance, Phase & Frequency Difference, very Close-in Phase Noise analysis of systematic phase variations & noise.

Fast, real-time, on-screen plots

Selectable measurement bandwidths filters, tau, error multiplier all selectable. Int-ext ref options.

Fully specified uncertainties input related sprii, input drift, temperature coefficient ... all negligable but specified

Quartzlock Product Family Tree



Quartzlock new observatory/laboratory building

Some frequency control solutions

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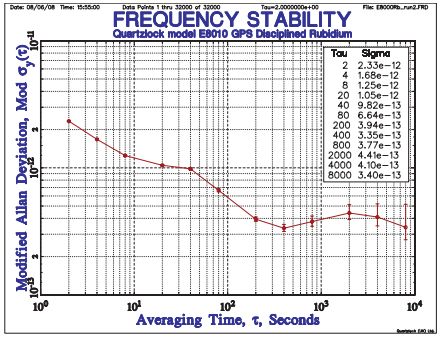
Low noise **Frequency Control & Analysis Solutions**

Rubidium
GPS
Measurement
Distribution



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Rubidium Components & Instruments

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GPS Time & Frequency References

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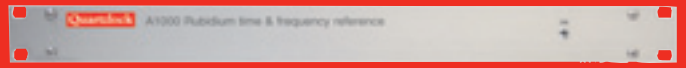
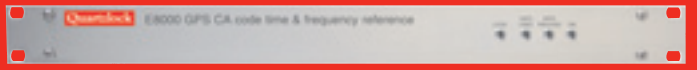
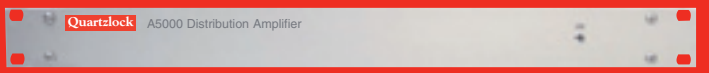
Distribution & Conversion

A5-24 1–100MHz







Highest stability, lowest cost and longest warranty.

A10-MX

Industry standard rubidium frequency references used by major government departments, first division industry and defence.

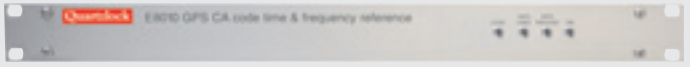
Many frequency and multiple output options.

Available in low noise and ultra noise options.

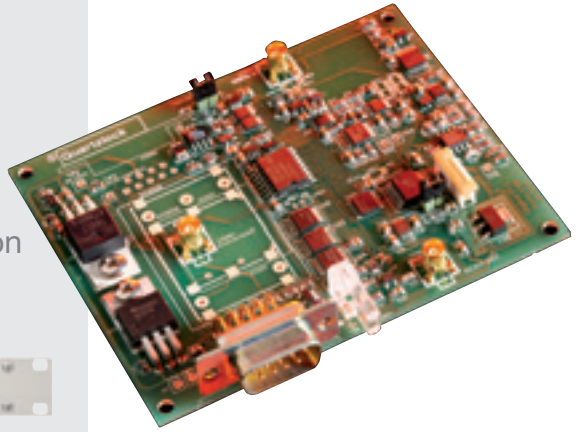
The Quartzlock E8-X and E8000 represent breakthroughs in exceptionally low cost, tracable, **calibration-free "off air" frequency & time standards**. These very low cost references maintain the high frequency & time accuracy required for demanding applications.

The Quartzlock E8010 GPS disciplined rubidium is an equally cost effective solution to drift-free low noise high stability frequency reference, standard and calibration requirements with excellent hold over.

See AVAR plot on cover



Fully specified, low cost distributon amplifiers. 1–20MHz bandwidth, excellent short term stability and phase noise.



Quartzlock E8 GPS line uses our A6-CPS DPLL/DDS clean-up loop technology.