

Chip Scale Atomic Clocks Sources

Technology comparison

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DARPA.

Atomic clock with enhanced stability (aces).

<https://www.darpa.mil/program/atomic-clock-with-enhanced-stability>.



DARPA.

Darpa chip-scale atomic clocks aboard international space station.

<https://phys.org/news/2012-03-darpa-chip-scale-atomic-clocks-aboard.html>.



GISGeography.

How gps receivers work - trilateration vs triangulation.

<https://gisgeography.com/trilateration-triangulation-gps/>.



J. Kitching.

Time for a better receiver: Chip-scale atomic frequency references.

(18), 2007-11-01 2007.



B. L. S. Marlow and D. R. Scherer.

A review of commercial and emerging atomic frequency standards.

IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control,
68(6):2007–2022, 2021.



Microchip.

Microchip technology inc. (website).

<https://www.microsemi.com/>.

Questions?

Thank you!