











Fig. 9. Precision-time-protocol (PTP) variance of time synchronized chip scale atomic clock.

that the FIR filter designed is better than the Kalman filter when non-Gaussian noise is present. The proposed scheme described in this paper helps to produce a synchronized clock that achieves two orders of magnitude improvement of the one-second PTP variance and one order of magnitude improvement of the thousand-second PTP variance over those of a GNSS receiver.

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