GNSS performance[1]

Parameter	Specification	GNSS evaluation kit	Potentially achieved
Receiver configuration		32 channels: -12 GPS L1C/A -12 GLO L1C/A -6 GAL E1 -2 SBAS L1C/A Fast Search Engine	Not limited # channels - GPS L1C/A, L1P(Y), L2P(Y), L2C, L5 - GLONASS L1C/A, L2C/A, L3 - BeiDou B1 (phase 2), B2 - Galileo E1, E5a, E5b - QZSS L1C/A, L2C, L1SAIF, L5 - SBAS (WAAS/EGNOS/MSAS/GAGAN) L1C/A
Time-To-First-Fix (GPS)	Cold Start Warm Start Hot Start Re-acquisition	35s 25s 3s 1s	30s 25s 3s 1s
Sensitivity	Tracking Acquisition Cold Start Acquisition Hot Start	-154dBm (PLL bandwidth 15Hz) -144dBm -148dBm	-160dBm -148dBm -157dBm
Horizontal accuracy[3]	GPS	5m (LMS[2])	50cm (SBAS) 1cm (RTK)
Time pulse accuracy		38ns	Depending on system clock
Update rate		20 Hz	100Hz
Velocity accuracy		Not supported	0.1 m/s
Heading accuracy		Not supported	0.2 deg/baseline (m)

[1] – Accuracy and TTFF specifications may be affected by atmospheric conditions, signal multipath, satellitegeometry and corrections availability and quality.

[2] – Pure LMS positioning, no filtration used.

[3]– Vertical error is typically < 2 time's horizontal error.