

3.14 GNSS (GPS and GLONASS)

SIM5360 merges GNSS (GPS/GLONASS) satellite and network information to provide a high-availability solution that offers industry-leading accuracy and performance. This solution performs well, even in very challenging environmental conditions where conventional GNSS receivers fail, and provides a platform to enable wireless operators to address both location-based services and emergency mandates.

3.14.1 Technical specification

Table 32: GNSS Technical specification

GNSS antenna	Passive antenna
Tracking sensitivity	GPS : -159 dBm GLONASS : -158 dBm
Cold-start sensitivity	-148 dBm
Accuracy (Open Sky)	2.5m (CEP50)
TTFF (Open Sky)	Hot start <1s Cold start 35s
Receiver Type	16-channel, C/A Code
Frequency	GPS : L1 Frequency (1575.42±1.023MHz), GLONASS : 1597.5~1605.8 MHz
Update rate	Default 1 Hz
GNSS data format	NMEA-0183