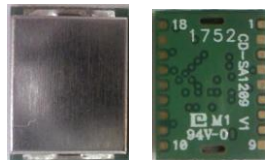
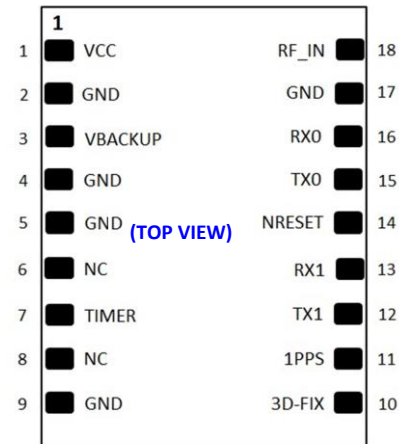


CD-SA1209S GNSS standalone module



Features

- 33 tracking/ 66 acquisition-channel GPS receiver
- AGPS Support for Fast TTFF (EPO Enable 7 days/14 days)
- AlwaysLocate(Advance Power Periodic Mode) for power saving
- EASY: Self-Generated Orbit Prediction for instant positioning fix
- GPS Consumption current(@3.3V):
 - Acquisition: 20mA Typical Tracking: 17mA Typical
- High accuracy 1-PPS timing support for Timing Applications (± 20 ns jitter)
- High Update Rate: up to 10Hz
- Supports QZSS, SBAS(WAAS, EGNOS, GAGAN, MSAS) ranging
- Ultra-High Sensitivity: -165dBm



Specification List

Item	Description
GNSS Solution	MTK MT3339
Frequency	GPS L1, 1575.42MHz
Sensitivity(GPS portion)	Acquisition: -148dBm, Cold start Reacquisition: -163dBm Hot start Tracking: -165dBm
TTFF (No. of SVs>4, C/N>40dB, PDop<1.5)	Hot start: 1 second typical Warm start: 33 seconds typical Cold start: 35 seconds typical, 60 seconds Max
Position Accuracy	Without aid:3.0m (50% CEP) DGPS(SBAS(WAAS,EGNOS,MSAS)):2.5m (50% CEP)
Update Rate	1Hz (default), maximum 10Hz
Baud Rate	9600 bps (default)
Velocity Accuracy	Without aid : 0.1m/s DGPS(SBAS(WAAS,EGNOS,MSAS,GAGAN)):0.05m/s
Altitude	Maximum 18,000m (60,000 feet)
Velocity	Maximum 515m/s (1000 knots)
Acceleration	Maximum 4G
DGPS	SBAS(default) [WAAS, EGNOS, MSAS,GAGAN]
Power Supply	VCC : 3.0V to 4.3V ; VBACKUP : 2.0V to 4.3V
Working Temperature	-40 °C to +85 °C
Dimension	12 x 9 x 2.1 mm, QFN
Weight	0.6g