

G7

Extremely Compact GNSS Module





GPS+BDS+GLONASS



Compact Size



Operating temperature
-40 to +85°C



Low power consumption



Super Tracking Sensitivity:
-163 dBm



RoHS compliant

Neoway

G7

G7 is a GNSS module which supports GPS L1/BDS B1/GLONASS L1(Optional). Its dimensions are 10.1 x 9.7 x 2.2 mm which makes it perfectly suited for industrial applications with strict size requirement. The module is in a 18pin LCC package that is easier to be SMT while producing. G7 provides high sensitivity, low power consumption and low cost positioning / navigation solutions for automotive, portable and IoT terminals.

GNSS Features

- Receiver type:
GPS L1, BDS L1, GLONASS L1
6 modes, Default : GPS+BDS
- Navigation update rate up to 10 Hz
- Horizontal Position Accuracy: <3m
- Velocity Accuracy: <0.1 m/s
- Sensitivity:
Tracking: -163 dBm
Acquisition: -147 dBm
- TTFB:
Cold starts: <28 s
Warm starts: <1 s
Reacquisition: <1 s

General Features

- Operating temperature: -40°C to +85°C
- Supply voltage: 2.7 to 3.6 V
- Power Consumption:
25 mA@3.3V (Continuous)
20 uA@3.3V (Power Save mode)
- Backup voltage: 1.4 to 3.6 V
- Package: LCC 18-pin
- Dimensions: 10.1 x 9.7 x 2.2 mm
- Weight: <6 g

Highlights

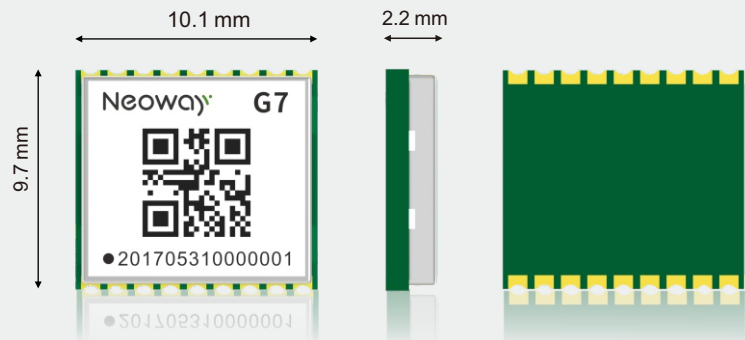
- Extremely compact size:
10.1 x 9.7 x 2.2 mm
- Multi-GNSS engine for GPS, BDS, GLONASS
- High sensitivity:
Tracking: -163 dBm
Acquisition: -147 dBm
- Built-in LNA for better sensitivity
- Support A-GNSS
- pin to pin compatible with other leading module

Quality & Reliability

- RoHS compliant
- Qualification according to ISO 16750

Interfaces

- Power, nRESET
- UART1:
Adjustable 4800bps to 230400 bps
Default : 9600bps
- Protocols: NMEA, RTCM



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