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G6

Compact GNSS Module

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GET CONNECTED GET SMART

GPS+BDS+
GLONASS

Operating temperature
-40 to +85°C

Low power
consumption

Super Tracking Sensitivity:
-165 dBm

RoHS compliant

Neoway

G6

G6 is a dual GNSS module which supports GPS L1/BDS B1/GIONASS L1(Optional). Its dimensions are 16 x 12.2 x 2.2 mm which makes it perfectly suited for industrial applications with strict size requirement. The module is in a 24pin LCC package that is easier to be SMT while producing. G6 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: -165 dBm
  Acquisition: -148 dBm
- TTFF:
  Cold starts: <28 s
  Warm starts: <1 s
  Reacquisition: <1 s

Interfaces

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

General Features

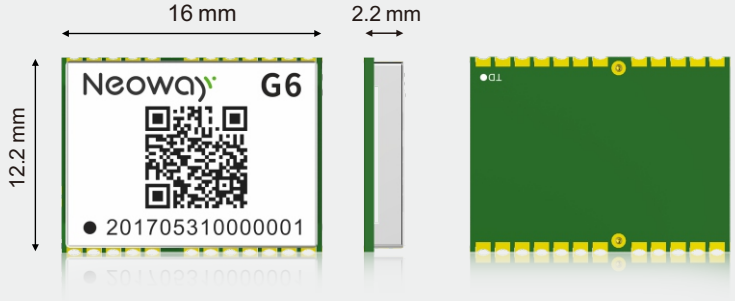
- Operating temperature: -40°C to +85°C
- Supply voltage: 2.7 to 3.6 V
- Power Consumption:
  25 mA@3.3V (Continuous)
  20 uA@3.3V (Power Save mode)
- Backup voltage: 1.4 to 3.6 V
- Package: LCC 24-pin
- Dimensions: 16.0 x 12.2 x 2.2 mm
- Weight: <6 g

Quality & Reliability

- RoHS compliant
- Qualification according to ISO 16750

Highlights

- Multi-GNSS engine for GPS, BDS, GLONASS
- High sensitivity:
  Tracking: -165 dBm
  Acquisition: -148 dBm
- Built-in LNA for better sensitivity
- Support A-GNSS
- Support antenna detection and short circuit protection
- pin to pin compatible with other leading module



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