

G7A series

GNSS module



**GPS/GLONASS/BDS/
QZSS**

G7A is a GNSS module which supports GPS/GLONASS/BDS/QZSS. Both multi-system joint positioning and single system independent positioning are supported.



Ultra small size

Its dimensions are 10.6*9.7*2.2 mm, which makes it perfectly suited for industrial applications with strict size requirement.



Super sensitivity

The module adopts 18-pin LCC package that is easier for SMT operating.

G7A provides high sensitivity, low power consumption and low cost position/navigation solutions for automotive, portable and IoT terminals.



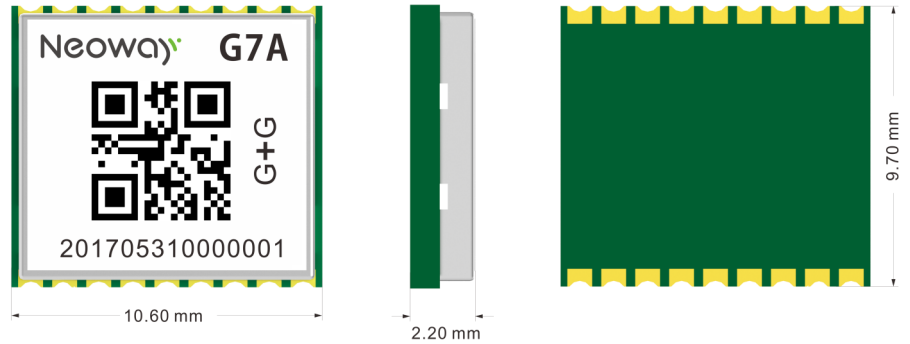
**Industrial operating
temperature**



RoHS compliant

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Product Features

Receiving Bands:

- GPS L1 C/A: 1574.397MHz -1576.443MHz
- GLONASS L1 C/A: 1597.5MHz -1605.8MHz
- BDS B1 C/A: 1559.052MHz -1563.144MHz

Support GPS/GLONASS/BDS/QZSS

Support AGPS

Built-in LNA for better sensitivity

Protocols: NMEA0183

Dimensions: 10.6*9.7*2.2 mm

Package: 18-pin LCC

Electrical Data

Supply voltage	2.7 to 3.6V, Typ: 3.3V
Backup voltage	1.4 to 3.6V
Power consumption	Acquisition: 30mA
@-130dbm, VCC=3.3V	Tracking: 25mA
(Typical)	Backup: 10uA

Interfaces

Power interfaces	VBAT, VBACKUP
Serial interface	UART (4800 to 230400bps, Typ: 9600bps)
Digital I/O	1PPS, RESET_N, ANT_ON

Performance Data

Receiver type	32 tracking / 32 acquisition-channel GNSS receiver
Data update rate	1 to 10Hz, Typ: 1Hz
Sensitivity (Typical)	Tracking: -163dbm Reacquisition: -160dbm Colding: -148dbm Cold start: 28s(Typ)
TTFF@-130dbm	Hot start: <1s A-GNSS: <10s Position: <2.5m CEP Velocity: <0.1m/s
Accuracy	
Operating temperature	-40°C to +85°C

Certification Approvals

CE, RoHS

Neoway
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