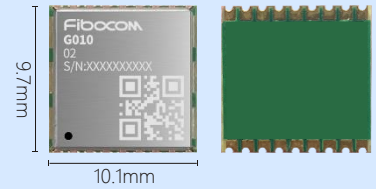


Fibocom G010

Standard Precision Dual-frequency GNSS Positioning Module

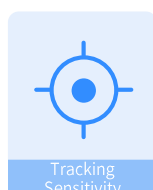
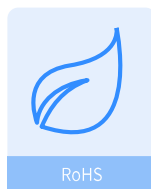
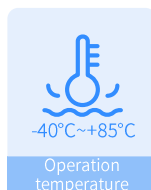
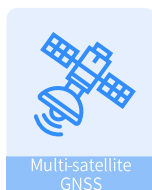


Fibocom G010 is a high-performance, dual-frequency and multi-constellation positioning module that supports all the signal of civil-navigation satellite systems (includes BDS, GPS, GLONASS, Galileo and QZSS).

Adopting the up-to-date power management technology, G010 can achieve GNSS sensing and positioning while maintain low power consumption. Combine with LNA and SAW Filter, G010 can acquire high-sensitivity positioning, as well as rapid signal tracking and acquisition even under the poor signal area. Besides, AGNSS can enhance the sensibility of acquisition in shorter time even under weak signal environment. The offline ephemeris feature can extend the operating time to up to 6 days. Moreover, G010 supports Antenna detection feature which is able to implement the detection of Open/Short circuit.

It's an ideal solution for real-time tracking, shared economy industries with the advantages of compact size and low power consumption.

Key Features



- Compact size 10.1*9.7*2.5mm
- Support Multi-satellite System: GPS、GLONASS、BDS、Galileo、QZSS and SBAS
- Supports single system independent positioning and multi-system combining positioning
- Dual SAW Filter, strengthen anti-jam capabilities
- Low Noise Amplifier(LNA), enhance receiving sensitivity
- Supports A-GNSS feature
- The best cost-effective standard-precision GNSS solution



GNSS		G010-02															
General Specifications																	
Package	18 PIN LCC																
Dimensions (mm)	10.1*9.7*2.5mm																
Weight	Approximate 0.5g																
Position Accuracy	GNSS 2.5m CEP																
GNSS Features																	
Product Model	GPS/QZSS					BDS					GLONASS		Galileo			SBAS	
	L1C/A	L1C	L2C	L5	L6	B1I	B1C	B2I	B2a	B3I	L1OF	L2	E1	E5a	E6	L1	
G010-02	●					*					●		●			●	
Accuracy	Meter Level																
GNSS Tracking Channels	72																
Update Rate	5Hz maximum																
Time to First Fix (TTFF)	Cold Start: 1s Hot Start: 28s																
Power Consumption	Operating (GNSS): 35mA@3.3V Standby: 14uA@3.3V																
Antenna	Active antenna, Passive antenna																
Operation Temperature	-40°C - +85°C																
Safety Supervision	Antenna open circuit Detection & short circuit protection																
Sensitivity																	
Cold Start	-148dBm																
Hot Start	-158dBm																
Reacquisition	-159dBm																
Tracking	-162dBm																
Velocity & Time Accuracy	GNSS: 0.1m/s CEP 1PPS: 25ns																
Operating Condition																	
Main voltage	3.0~3.6V																
Digital I/O voltage	3.0~3.6V																
Backup voltage	1.6~3.6V																
Operation Limit																	
Velocity	515m/s																
Altitude	18,000m																
Features																	
LNA	●																
Data Logging	●																
Programmable (Flash)	●																
D-GNSS	●																
Interfaces																	
UART	●																
I2C	*																
Certification																	
Certification	RoHS & REACH, CE																

* =Supported upon request with special firmware

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