## Fibocom G041I

candard Precision Dual-band GNSS Module with **Dead Reckoning** 





Fibocom G041I is a dual-band, multi-constellation GNSS module with dead reckoning which supports GPS、BDS、QZSS satellite signals.

Combining GNSS positioning and inertial navigation technology, G041I can acquire high-sensitivity positioning, as well as rapid signal tracking and acquisition even under the poor signal areas (such as tunnels, underground parking, etc.), and provide continuous and accurate positioning for navigation applications.

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. G0411 also provide advanced power management, enabling low-power GNSS sensing and position fix, which makes it suitable for the industrial and consumer applications.

With high sensitivity, high precision and other performance advantages, G041I is an ideal solution for automotive navigation, lane-level navigation, fleet management services..

## **Key Features**

















- GNSS and INS navigation technology
- •Submeter-level GNSS positioning
- •Build-in 6D IMU, 3-axis accelerometer
- Integrated AGNSS function
- •Support other sensors access for multi-source information

fusion

Support free installation





	FIDOCOTT GU41
GNSS	G041I
General Specifications	
Package	24 PIN LCC
Dimensions(mm)	12.2*16.0*2.4mm
Weight	Approx. 0.9g
Position Accuracy	GNSS 1.0m CEP
GNSS Features	
Product	GPS/QZSS BDS GLONASS Galileo IRNSS
	L1C/A L1C L2C L5 L6 B1I B1C B2I B2a B3I L1OF L2 E1 E5a E6 L5
G041I-02	
Accuracy	Sub-Meter
Position update	1 Hz
Sensoroutput	50Hz
TTFF	Hot Start: 1s Cold Start: 30s
Power Consumption	Acquisition: <u>54mA@3.3V</u> Tracking: 50 <u>mA@3.3V</u> Standby: 12uA@3.3V
Operating temperature	-40°C -+85°C
Sensitivity	
Cold start	-148dBm
Hot start	-155dBm
Reacquisition	-158dBm
Tracking & Navigation	-160dBm
Velocity & Time Accuracy	GNSS: 0.1m/sCEP 1PPS: 20ns
Operating Condition	
Main voltage	3.0~3.6V
Digital I/O voltage	3.8~3.6V
Backup voltage	1.8~3.6V
Operation Limit	
Velocity	515m/s
Altitude	18,000m
Features	
D-GNSS	•
Build in SAW	•
Build in LNA	•
Oscillator	T
Interface	
UART	•
SPI	*
12C	*
Certifications	
Regulatory	RoHS&REACH

## ※ =特殊固件支持

