

atrin **electronic**

Expertise, variety and quality



www.atrinelec.com

آترین الکترونیک

تخصص، تنوع و کیفیت

02166766957 - 02166766927



info@atrinelec.com

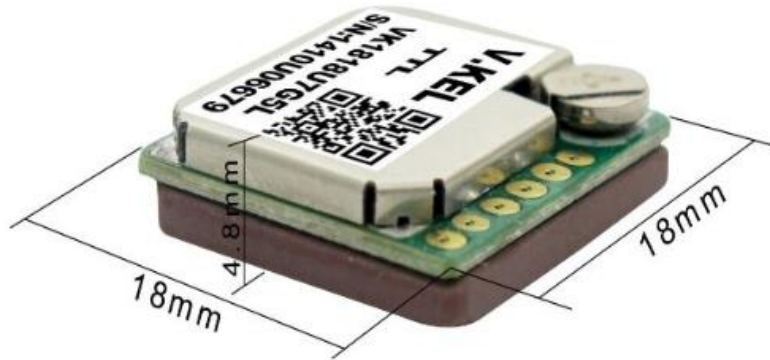


تهران پاساژ امجد طبقه 1 واحد 16



@atrinelec





Features

- Industry standard GPS antenna of 18*18*2mm, with high sensitivity
- High-precision TCXO of KDS 0.5PPM
- Built-in RTC crystal and capacitors to start quickly
- Built-in LNA
- Optional frequency of data refreshing: 1Hz-10Hz
- Supports A-GPS service: Assist Now Online and Assist Now Offline
- Hybrid engine: GPS, GLONASS, GALILEO, SBAS (WAAS, EGNOS, MSAS, GAGAN)



Pin assignment graph Definition

name	Describe
EN	Power supply enables high level/dangling module work, low level module closing
VCC	The main power supply of the system is + 3.3 V ~ + 5V, and the current is about 25mA
TX	UART/TTL interface
RX	UART/TTL interface
GND	grounding
VBAT	External battery

Technical Parameters

Module Property			
Chip	UBX-G7020-KT		
C/A (Data Rate)	1.023MHz		
Receiving Frequency	L1 (1575.42MHz)		
Receiving Channel	56		
S11 SWR	≤ 1.3		
S11 SWR	≤ 1.3B		
S21 Log Mag	≥20dB		
S11 Smith	50Ω±5%		
Positioning Property			
Horizontal Position	Autonomous<2.5m on average, SBAS < 2.0m on average		
Speed	<0.1m/s		
Direction	<0.5 degrees		
Timing Accuracy	30ns		
Coordinate System	WGS-84		
Max Height	50km		
Max Speed	500m/s		
Accelerate	≤ 4G		
Electrical Property			
Sensitivity	Tracking:-162dBm Cold Start: -148dBm	Capturing:-160dBm Warm Start: -148dBm	Hot Start: -156 dBm
Cold Start	29 seconds on average		
Warm Start	28 seconds on average		
Hot Start	1 second on average		
A-GPS	3 seconds		
Optional data baud	9600bps(by default)		
Optional output code	NMEA 0183 V3.0(GGA, GSA, GSV, RMC, VTG, GLL)		
Working Environment	-40°C to 85°C		
Other Parameters			
Clock Pulse	0.25-1KHz		
Updating Frequency	1-10 Hz		
UART/TTL	YES		