

SMART GPS ANTENNA

GP-7011

Mechanical Data 30*30*8.75 mm

30*30*6.75mm



Smart GPS Antenna

Overview

GP-7011 is an easy to use, ultra-high performance, low power GPS smart antenna module with patch antenna for AVL/handheld applications. The built-in u-blox7chip and our experienced design provide fast acquisitions and excellent tracking performance.

GP-7011 supports GPS/GLONASS option. In addition, italso supports RS232/TTL/USB options;the built-in battery could also be omitted if external backup power is preferred.

Applications

- Automatic vehicle location
- Driving recorder
- Fleet management
- Navigation
- GPS clock and digital camera
- Tracking

Features

Based on u-blox7 low power single chip

High performance: -161dBm+tracking sensitivity

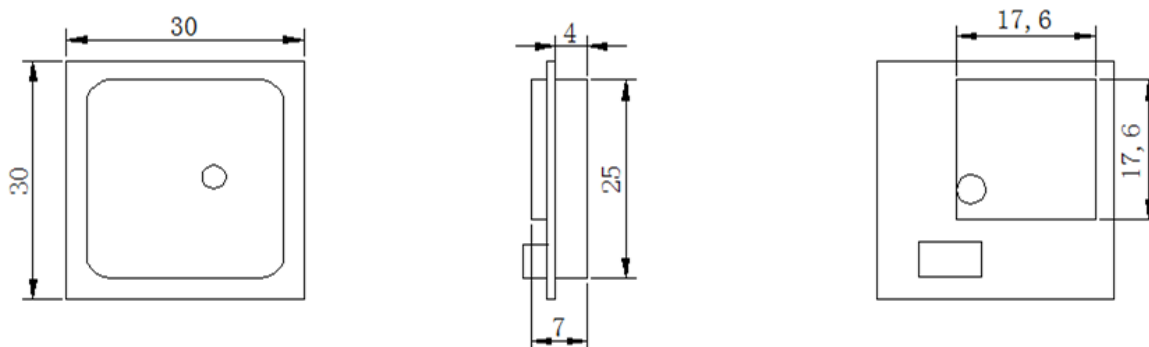
- Low power: 37mA at continuous tracking(9 SVs)
- SBAS (WAAS, EGNOS, MSAS) support
- GPS/QZSS(default) / GLONASS support
- A-GPS support, OMA SUPL/3GPP TS25.171 (GSM/UMTS) compliant
- Backup battery support for faster position fix
- Linux/Android support
- Fully EMI shielded
- Industrial operating temperature range: -40°C ~ 85°C

Technical Specifications

Receiver Performance Data

Receiver Type	56-channel GPS & QZSS:L1 C/A,1575.42MHz, GLONASS L1OF,1598.0625~1605.375MHz SBAS: WAAS, EGNOS, MSAS
Horizontal	2.5m (Autonomous)(GPS),4M(GLONASS)
Position	SBAS: 2.0m (GPS)
Accuracy	CEP, 50% 24hr static, -130dBm,
Velocity	0.1 m/s (speed)
Accuracy	<0.5(heading) (50% @30m/s)
Time Pulse	30ns (GPS) , 50ns (GLONASS)
Signal Accuracy	99% : 60ns (GPS), 100ns (GLONASS)
Time Pulse Frequency	0.25 Hz ~ 10 MHz
Time To First Fix	Autonomous (All at -130dBm) (50% -130dBm)
Hot start	1sec(GPS), 1sec (GLONASS)
Warmstart	28sec(GPS), 25sec (GLONASS)
Cold start	30sec(GPS), 32 sec (GLONASS)

Mechanical Data – 30 x 30x 8.7 (mm)

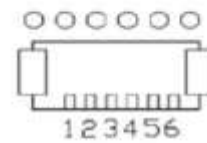
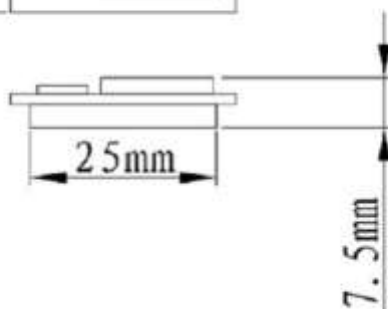
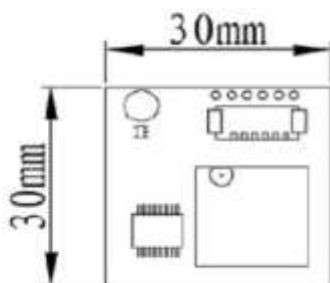


Module Pin Assignment & Dimensions

Module Pin Assignment



6pin Interface, pitch 1.0 mm (1.0mm)



Pin	Name
1	GND
2	VCC
3	TX/D+
4	RX/D-
5	TIMEPULSE
6	PWR_CTRL