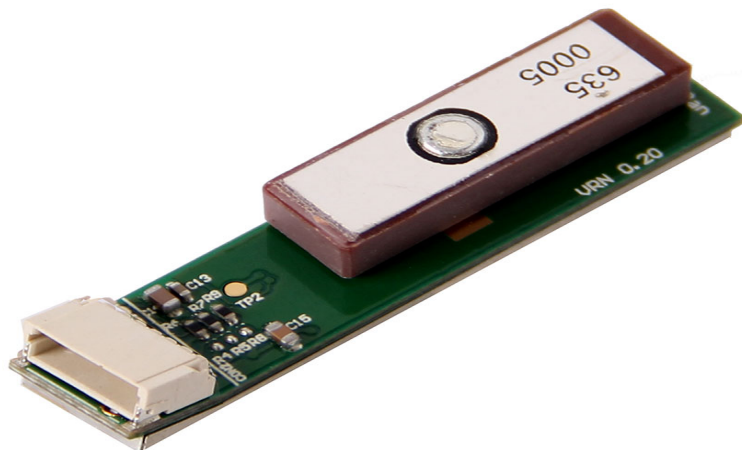# ARDUINO GPS RECEIVER
Model:GP-735

Overview

ADH-tech GP-735 is a slim, ultra-high performance, easy to use GPS smart antenna module designed with u-blox's latest 7th generation single chip.

This feature rich GPS module not only shortens the design efforts but also provides powerful functions. The compact design allows fast adoption and high yield production.

The power control feature is very convenient to turn on/off power just via GPIO control pin. It's especially useful to turn off power as the GPS function is not needed in the host applications.

Main Features

Not only handheld but also any other GPS applications can share the following major features of GP-735.

◆Easy adoption with best performance

◆Built-in narrow patch antenna for dimension demanding application

◆Models of I-PEX RF connector option available for using external antenna

◆Built-in backup power pin for faster position fix

◆USB/UART-TTL interface support

◆Minimum RF and EMI efforts

◆Fully implementation of ultra-high performance u-blox7 single chip architecture

◆High tracking sensitivity of -162 dBm!

◆Low power consumption of 37mA for average tracking

◆Hardware power saving control pin allowing power on/off GPS via GPIO

◆Windows location sensor support

◆A-GPS support

Receiver Specifications

Features	Specifications
GPS receiver type	56 channels, L1 frequency, C/A code
Horizontal Position Accuracy	< 2.5m (Autonomous) < 2.0m (WAAS) (CEP, 50%, 24hr static, -130dBm)
Velocity Accuracy	<0.1 m/s (speed) <0.5° (heading) (50%@30m/s)
Accuracy of Time pulse Signal	30ns (RMS) or <60 ns (99%)
TTFF (Time to First Fix) (50%, -130dBm, autonomous)	Hot Start: 1s Warm Start: 28s Cold Start: 29s
Sensitivity (Autonomous)	Tracking: –162dBm Acquisition: -148dBm
Measurement data output	Update rate: 1 Hz (default), up to 10 Hz by enabling command NMEA output protocol: Ver. 2.3 (compatible to 3.0) UART baud rate: 9600 bps, (N-8-1) Datum: WGS-84 Default: GGA, GLL, GSA, GSV, RMC, VTG, TXT
Max. Altitude	< 50,000 m
Max. Velocity	< 1,852 km/hr
SBAS Support	WAAS, EGNOS, MSAS, GAGAN
Dynamics	< 4g
Power consumption	37mA, continuous tracking mode
Power supply	3.1 ~ 5.5 V (TTL); 4.75~5.25V (USB)
Dimension	8(W) x 35(L) x 6.55(H) (mm)
Operating temperature	-40°C ~ +85°C
Storage temperature	-40°C ~ +85°C

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