

# New Product Release : PA6B and PA6E GPS Modules

LOW COST, MINIATURE GPS MODULES WITH PATCH ANTENNA



## OVERVIEW

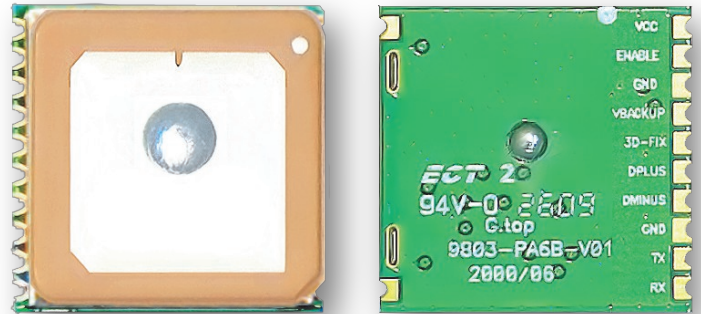
The PA6B series of GPS modules are complete GPS module supporting NMEA data structure.

In addition to high sensitivity and fast acquisition times, the family also features a built-in patch antenna. The PA6E can also accommodate an external antenna, and has the antenna switching circuitry included within the module.

The small form-factor and integrated additional hardware provides customers with a simple implementation and rapid design cycle, drastically reducing time to market.



August 2010 - 2 new GPS modules have been released by GTOP



Global Top Technology has released 2 new products to the market. These are the PA6B and PA6E GPS modules. Both devices are the same physical size (16 x 16 x 6mm) and feature a highly sensitive onboard patch antenna, making them the smallest integrated GPS Modules with a patch antenna.

The difference between the 2 devices is that the PA6B features a USB interface, and the PA6E provides an interface for an external antenna, as well as including all the switching circuitry internally within the module.

## Common Features:

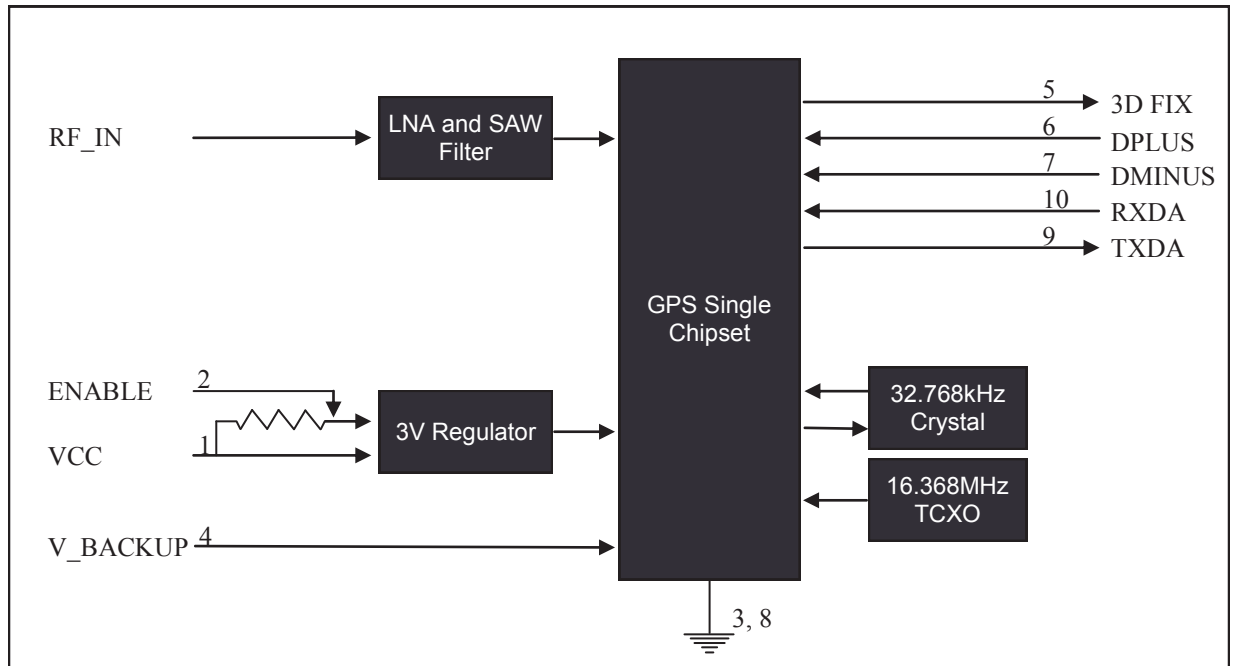
- Frequency: 1575.42 MHz
- Sensitivity:
  - Acquisition: -148dBm Cold Start
  - Reacquisition: 160dBm
  - Tracking: -165dBm
- Channels: 66
- Time to First Fix:
  - Hotstart: 1 second typical
  - Warm Start: 33 seconds typical
  - Cold Start: 35 seconds typical
- Update Rate: 1hz default, max 10hz
- Baudrate: 9600 bps default
- DGPS: RTCM Protocol / SBAS (default) [WAAS, EGNOS, MSAS, GAN]
- AGS Supported
- Power Supply:
  - VCC: 3.3V to 5.5V
  - VBackup: 2.0V to 4.0V
- Power Consumption:
  - 48mA Acquisition
  - 37mA Tracking
  - 15uA Shut down current typical
- Working Temp: -40°C to +85°C
- Dimension: 16 x 16 x 6mm
- SMD Mount
- Jammer Detection and Reduction
- Multi path detection and compensation

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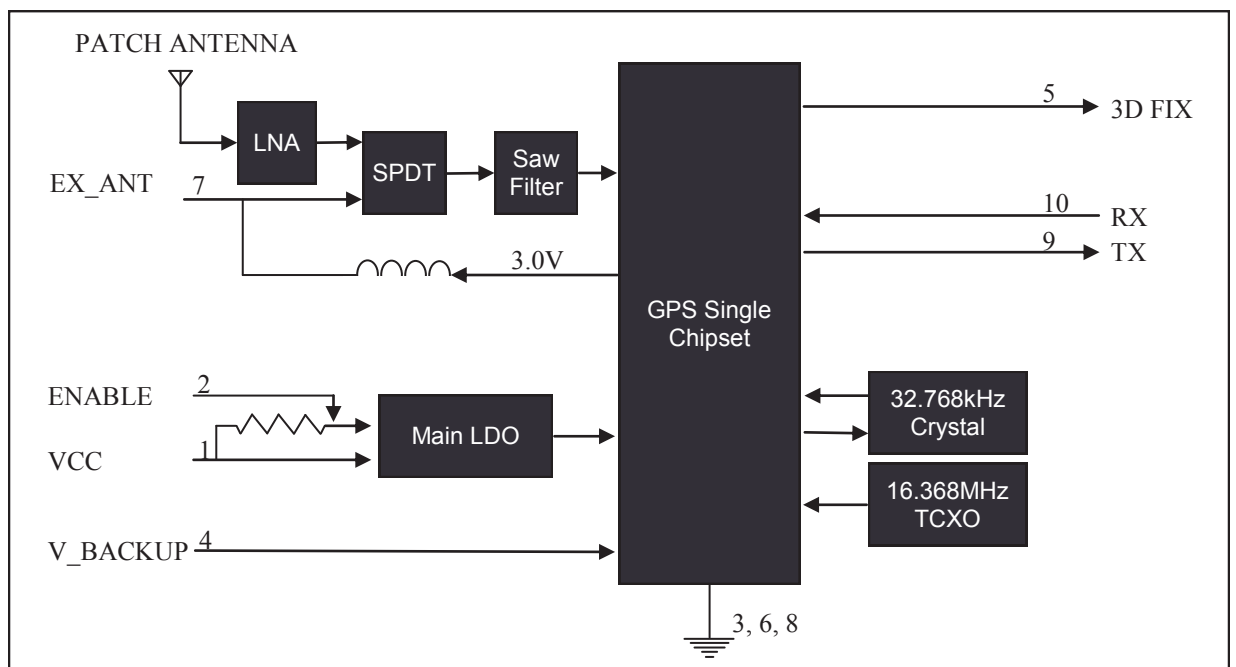
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FGPMMOPA6B SYSTEM BLOCK DIAGRAM



FGPMMOPA6E SYSTEM BLOCK DIAGRAM



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