How High Can You Go?

Fastrax IT500 series

Highest sensitivity GPS receivers in the industry. Gives you the position where ever you are.

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Fastrax IT500 & IT520

- Have you seen -165dBm before? -

Fastrax IT500 & IT520 - the most powerful GPS receiver modules on the market, with navigation sensitivity of -165 dBm. Due to very high acquisition sensitivity of -148 dBm, IT500 & IT520 receiver enables cold start in surprisingly difficult conditions and navigates reliably even in the most demanding urban canyons.

Fastrax IT520 is a smaller version of market leading IT500, reducing the size by more than 50%, resulting one of the smallest stand-alone GPS receiver modules.

Key features of Fastrax IT520 and Fastrax IT500:
- Ultra High Sensitivity with MT3329 chipset:
    - −148 dBm (Cold Start Acquisition)
    - −165 dBm (Navigation)
- 66 channels
- 10 Hz fix update rate
- Very low power consumption: 75mW @ 3.0V
- Fastrax IT MP compatible (IT500 only)
- Extremely small size, 10.4 x 14.0 x 2.3mm (IT520)
- WAAS/EGNOS support
- Predicted AGPS, aiding valid for 14 days
- USB support with IT520U

Fastrax UP501

- Position indoors ?-

Fastrax UP501 is the successor of extremely popular UP500, with further improved sensitivity and power consumption**.** Extremely sensitive UP501 can have a fix even indoors when necessary. Performance and ease of use make UP501 a reliable and simple GPS solution for any device.

Key features of Fastrax UP501:
- Ultra High Sensitivity with MT3329 chipset:
    - −148 dBm (Cold Start Acquisition)*
    - −165 dBm (Navigation)*
- 10Hz fix update rate*
- Very low power consumption: 75mW @ 3.0V*
- Tiny form factor – 22mm x 22mm x 8mm
- Embedded patch antenna 18.4 x 18.4 x 4.2 mm
- WAAS/EGNOS support
- Optional internal back-up battery (UP501B)
- UP501D with dual SAW filter for increased noise immunity
- Predicted AGPS, aiding valid for 14 days

For easy and reliable mounting, Fastrax UP501 has built-in PCB-mounting flanges and standard 2.54mm IO-pin pitch.

* - Improved from UP500

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smart *positioning*

GPS receiver module	Size (mm x mm)	Power consumption	Sensitivity Cold start	Sensitivity Navigation	Compatible
IT500	16.2 x 18.8	75 mW	-148 dBm	-165 dBm	MP
IT520	**10.4 x 14.0**	**75 mW**	**-148 dBm**	**-165 dBm**	
IT430	9.6 x 9.6	56 mW	-147 dBm	-163 dBm	
IT300	16.2 x 18.8	75 mW	-146 dBm	-159 dBm	MP
IT310	13.1 x 15.9	75 mW	-146 dBm	-159 dBm	
IT03/16	22.0 x 23.0	95 mW	-142 dBm	-156 dBm	
Antenna modules					
UP501	**22.0 x 22.0**	**75mW**	**-148 dBm**	**-165 dBm**	**Patch ant 18x18 mm**
UP300	19.0 x 27.0	85 mW	-146 dBm	-159 dBm	Patch ant 18x18 mm

For more: www.fastraxgps.com/products/

Keep on Moving

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