GPS2 - 2cm Accuracy GNSS Receiver



GPS2 - SPEEDBOX compatible GNSS receiver with up to 2cm positional accuracy

- Connect to existing SPEEDBOX systems to improve GPS robustness and positional accuracy
- Improve GPS accuracy with correction options:
 - Standalone accuracy = 2m positional
 - Standalone with WAAS = 70cm positional
 - RTK differential corrections over GSM or radio modem = 2cm positional
- GPS L1/L2, GLONASS, SBAS, QZSS, WAAS/EGNOS/MSAS
- 226 universal channel signals tracked
- Stacking case, fully compatible with SPEEDBOX MINI, DL2, POWER PACK 2 etc.

Positional Correction Sources:

- Over radio modem from a basestation
- Over radio modem from a 3rd party modem, subject to it sending the required RTCM v3 messages
- Corrections over the GSM network from a remote connection (NTRIP) server. Built in GSM modem, just insert a sim card and set up the user name and password





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| Typical Position Accuracy (standalon | e) 1-2m |
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| Typical Position Accuracy (differentia | I) 2-3cm |
| Typical Speed Accuracy (standalone) | 0.02m/s |
| Distance Accuracy | 2-3cm in 40m |
| Correction format | RTCM v3.x |
| Update Rate | 20Hz |
| Serial I/O | 3 x RS232 ports |
| Serial 1 | RS232 @ 460800 baud - Outputs RT msg109 @ 20Hz |
| Serial 2 | RS232 @ 115200 baud - Configuration / reflash |
| Rear serial port ("Modem") | RS232 @ 38400 baud - RTCM3 input/output |
| USB | 115200 baud - Configuration / reflash |
| CAN output | GPS status, GPS time, LLH Position, NED velocity, 2D & |
| | 3D speed, GPS heading & gradient at up to 20Hz. |
| | Output latency either ASAP or fixed 150ms. |
| SIM card format | Mini-SIM (2FF) |
| Voltage | 10-15V |
| Power consumption | 3W |
| Weight | 540g |
| Dimensions | 163mm x 118mm x 34mm |
| Antenna (standalone) | GPS L1 + GLONASS L1, 3.3v, active |
| Antenna (differential) | GPS L1/L2 + GLONASS L1/L2, 3.3v, active |
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