

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 (standalone)	1-2m
Typical Position Accuracy (differential)	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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