

HIGH PRECISION AT A FAIR PRICE

G2_RTK GNSS

The new RTK GNSS solution instantly transforms your TOUGHBOOK G2 into a precision instrument for simple and fast submeter surveying - without significantly increasing its size or weight.

It is also a cost-effective alternative to other measurement systems in comparable precision ranges.

Because the module is attached to the base unit via a specially developed communication board, it does not require a Bluetooth connection or similar. This ensures a stable connection between the GNSS unit and the TOUGHBOOK in any situation, whether in the woods or on the open road.



FUNCTION

The fully integrated high precision GNSS receiver enables the TOUGHBOOK G2 to use our RTK GNSS solution for satellite positioning with submeter accuracy.

FACTS

- Supports all major GNSS systems: GPS, GLONASS, Galileo, Beidou and QZSS
- Data export: NMEA
- Fast cold start initialisation time: 25 s - 30 s (depending on satellite usage)
- Initialisation time for repositioning: 2 s
- No connection via Bluetooth etc. required
- IP65 protection is maintained after installation of the antenna, thanks to a custom-fit sealing system.
- Your TOUGHBOOK G2's warranty remains unaffected by the modification.
- Rotatable and bendable antenna, an overhead antenna is available as an option.
- Windows 11 Pro

GNSS FEATURES

Receiver type: 184-channel u-blox F9 engine
Beidou, Galileo, GLONASS, GPS/QZSS
GNSS bands: L1C/A, L1OF, E1-B/C, B1I, L2C, L2OF, E5b, B2I
GNSS platform: Concurrent GNSS

PERFORMANCE

Horizontal positional accuracy:

- RTK 0.01 m + 1 ppm CEP
- PVT 1.5 m CEP
- SBAS 1.0 m CEP
- SPARTN < 0.06 m CEP (GPS+GLO+GAL)
- CLAS 0.04 m CEP (GPS+GLO+GAL)

Vertical positional accuracy:

- RTK 0.01 m + 1 ppm R50
- PVT 2.0 m R50
- SBAS 1.5 m R50
- SPARTN < 0.12 m R50
- CLAS 0.08 m R50

Dynamic course accuracy: 0.3 deg

Sensibility:

- Tracking and navigation (-167 dBm)
- Reacquisition (-160 dBm)

Convergence time: RTK < 10 s

USEABLE WITH PWA SOLUTIONS

- PWA_G2_GCG (GIANT CORNER GUARDS)
- PWA_G2_PH (POLE HOLDER)

ORDER NUMBER

PWA_G2_RTK

MORE INFO? CONTACT OUR SALES TEAM:

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