

World First:
Integrated DGPS



www.robust-pc.com

The rugged Tablet PC colibri X7 protect with integrated DGPS receiver*

Version 1: Differential GNSS extension | 30 - 50 cm:

- Integrated GNSS receiver for GPS and GLONASS (L1)
- Built-in UMTS extension for correction data service
- Compact high-performance antenna to be attached to colibri

Latest innovation:

Accuracy better than 30 cm by use of the correction data service AXIO-Net (ASCOS), tariff "ED Max".

Control software available.

Version 2: RTK-GNSS extension | centimeter accuracy:

- Integrated GNSS receiver for GPS and GLONASS (L1/L2 RTK)
- Built-in UMTS extension for correction data service
- Accuracy about 1 cm with external rover pole antenna (rover pole antenna not included)

Control software available.

*certified by 



TECHNICAL DATA

Integrated DGNSS receiver

certified by 



Glare



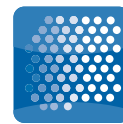
Moisture



Vibration



Temperature



Dust



Shock

GRS-1 Board

TRACKING FEATURES

Channel	72
Signal	L1/L2/L2C C/a P(Y) GPS + GLONASS, SBAS
Cold Start	< 60 s
Warm Start	< 10 s
Reacquisition	< 1 s

PHYSICAL FEATURES

Core	Paradigm G3
CPU	MPC5200
ASIC Clock Speed	50 MHz
Antenna output voltage	5.0 VDC

REAL TIME ACCURACY

Code phase precision	10 cm
Carrier phase precision	0.1 mm
Update rate	20 Hz, 100 Hz optional



Fascinating technology designed to provide absolute mobility: colibri - keep on working!

Turn it on, and you're ready to go.

The colibri X7 protect black edition now enables you to take measurements absolutely wirelessly.

The Mettenmeier GNSS technology means you no longer have to lug a backpack, independent power supply or cumbersome equipment around with you. The only external clue as to the system's new capabilities is a compact high-performance antenna, which is simply bolted to the colibri housing. In combination with auto-

matic correction data processing by UMTS, the system can be used as a DGNSS solution with an accuracy of approx. 30 cm. Consequently, no mobile phone is needed to use the data service.

But that's not all the colibri GNSS can do. You can also connect an external antenna for high-performance RTK surveying accurate to the centimetre.

Basic features

Environment

- protection class: IP 67
- operating temperature -15°C to 45°C

Power supply

- intelligent double removable battery system (2 x 14,8 V / 2,55 Ah)
- normal operating time: 5 to 6 hours (with two batteries)
- battery replacement during operation (Hot Swap), provided one battery remains

Weight and dimensions

- approx. 2.1 kg (4.63 lb)
- 296 x 38 x 240 mm (11.654 x 1.496 x 9.449 in)

Warranty

(with optional extended warranty)

- colibri X7 protect 24 months
- DGPS 12 months

Optional DGPS-equipment

- control software
- antennas (DGPS & RTK)
- pole for RTK antenna
- upgrade from DGPS to RTK by software

Advantages

- low total weight
- easy handling
- perfect outdoor protection (IP 67)
- best possible mobility
- no need for external antennas (e. g. backpack)
- power supply via colibri

Areas of application

- utility companies
- forestry and agriculture
- surveying and cartography and many more



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