

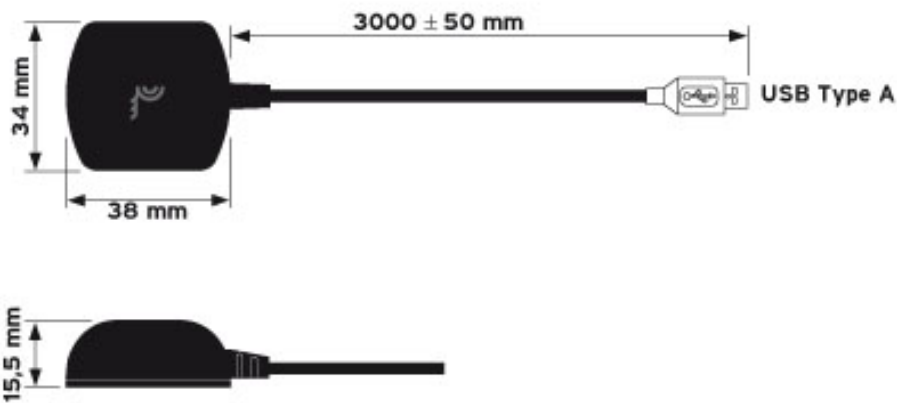


RAS 1575 USB / 3.0

Produktbeschreibung

| | |
|--------------|--|
| Typ | RAS 1575 |
| Bestell-Nr. | 920 422-001 |
| Beschreibung | GPS receiver with embedded ceramic patch antenna |

Zeichnung



Konstruktiver Aufbau

| | |
|---------------------|-------------------------|
| Gewicht | 70 g |
| Abmessungen (BxHxT) | 38 mm x 34 mm x 15,5 mm |

GPS Antenna

| | |
|---------------------------|---|
| Operation frequency range | 1575,42 ± 1,023 MHz |
| Polarization | RHCP |
| Antenna gain | at Elevation 90° : +2,0 dBic min. 20° : -5,0 dBic min. |
| Axial ratio | at Elevation 90° (Zenith) 3,0 dB max. (mounted at metallic ground plane 60 x 60 mm) 5,5 dB max. (mounted at non metallic groundplane) |
| VSWR | of the passive antenna element (ceramic patch) at frequency range 1575,42 ±1 MHz < 1,5 |

GPS Receiver

| | |
|-------------------|---|
| Channels | 48 Channels |
| Frequency | GPS L1, C/A Code |
| GPS Data Stand. | NMEA |
| Sensitivity | Acquisition : -148 dBm Navigation : -163 dBm Tracking : -165 dBm |
| Position Accuracy | < 1.8 m (CEP50) |
| Velocity Accuracy | 0.01 m/s |
| Heading Accuracy | 0.01 degrees |
| Operating Limits | 4 g dynamics 50,000 m altitude 500 m/s velocity |
| Time to 1st fix | Hot Start : 1 sec Cold Start : 35 sec |
| Operating Temp. | -40 °C - +75 °C |
| Voltage supply | 5 ± 0.5 V (USB) 1,8 V (internal) |
| Current draw typ. | Low power mode (Tracking 1 Hz) : 10 mA Average full power tracking in LDO mode : 35 mA Average full power tracking in switcher mode : 28 mA |