



Field 2 Office professional solutions

Specifications

Front panel

| GNSS Characteristics(1) | | |
|--|---|--|
| Channels 432 | | |
| GPS L1, L2, L5 | | |
| GLONASS L1, L2 | | |
| Galileo E1, E5a, E5b | | |
| BeiDou B1, B2, B3 | | |
| SBAS L1 | | |
| QZSS L1, L2, L5 | | |
| GNSS Accuracies ²⁾ | | |
| Real time Horizontal: 10 mm + Vertical: 15 mm + 1 plus limitalization time: < 1 Initialization reliability | ppm RMS | |
| Post-processing Horizontal: 3 mm + 1 Vertical: 5 mm + 1 pp | • • | |
| Post-processing Horizontal: 3 mm + 0 Vertical: 5 mm + 0.5 | | |
| Code differential Horizontal: 0.4 m RM Vertical: 0.8 m RMS | S | |
| Autonomous Horizontal: 1.5 m RM Vertical: 3.0 m RMS | S | |
| Positioning rate Up to 10 Hz | | |
| Time to first fix ⁽³⁾ Cold start: < 45 s Hot start: < 10 s Signal re-acquisition: | < 1 s | |
| Hardware | | |
| | | |
| Size (L × W × H) 137 mm x 137 mm x (5.4 in × 5.4 in × 4.2 | | |
| (5.4 in × 5.4 in × 4.2 Weight 1.39 kg (3.06 lb) | in) | |
| (5.4 in × 5.4 in × 4.2 Weight 1.39 kg (3.06 lb) Environment Operating: -40 °C to | in) | |
| (5.4 in × 5.4 in × 4.2 Weight 1.39 kg (3.06 lb) Environment Operating: -40 °C to | +65 °C (-40 °F to +149 °F) | |
| (5.4 in × 5.4 in × 4.2 Weight 1.39 kg (3.06 lb) Environment Operating: -40 °C to Storage: -40 °C to +7 Humidity 95% Ingress protection IP67 waterproof and | +65 °C (-40 °F to +149 °F) 5 °C (-40 °F to +167 °F) | |
| (5.4 in × 5.4 in × 4.2 Weight 1.39 kg (3.06 lb) Environment Operating: -40 °C to Storage: -40 °C to +7 Humidity 95% Ingress protection IP67 waterproof and | +65 °C (-40 °F to +149 °F) '5 °C (-40 °F to +167 °F) dustproof, protected ersion to depth of 1 m | |

6 status LED

| Communications And Data Storage | |
|---|--|
| | |
| Network modem | Integrated 3.75G modem |
| | HSPA+ 21 Mbps (download), 5.76 Mbps (upload |
| | WCDMA 850/900/1700/1900/2100 |
| | EDGE/GPRS/GSM 850/900/1800/1900 |
| Wi-Fi | 802.11 b/g/n, access point mode |
| Bluetooth* | v4.1 |
| Ports | 1 x 7-pin LEMO port (external power, RS-232) |
| | 1 x USB 2.0 port (data download, firmware |
| | update) |
| | 1 x UHF antenna port (TNC female) |
| UHF radio | Standard Internal Rx/Tx: 410 MHz to 470 MHz |
| | Transmit Power: 0.5 W to 2 W |
| | Protocol: CHC, Transparent, TT450 |
| | Link rate: 9600 bps to 19200 bps |
| | Range: Typical 3 km to 5 km |
| Data formats | RTCM 2.x, RTCM 3.x, CMR input and output |
| | HCN, HRC, RINEX 2.11, 3.02 |
| | NMEA 0183 output |
| | NTRIP Client, NTRIP Caster |
| Data storage | 8 GB internal memory |
| Electrical | |
| Power consumption | 4.2 W (depending on user settings) |
| Li-ion battery capacity 2 x 3400 mAh, 7.4 V | |
| Operating time on | UHF receive/transmit (0.5 W): 5 h to 7 h |
| internal battery ⁽⁴⁾ | Cellular receive only: up to 10 h |
| | Static: up to 12 h |
| External power input | 9 V DC to 36 V DC |
| | |

*Specifications are subject to change without notice.

- (1) Compliant, but subject to availability of BDS ICD and Galileo commercial service definition. GLONASS 13, BDS B3 and Galileo E6 will be provided through future firmware upgrade.

 (2) Accuracy and reliability are determined under open sky, free of multipaths, optimal GNSS
- geometry and atmospheric condition. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices. (3) Typical observed values.
- (4) Battery life is subject to operating temperature

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