Key features

• High performance dual-feed antenna with large ground plane
• Cross-platform ReachView app for configuration and surveying
• 868/915 MHz LoRa for up to 8 km connectivity
• Broad connectivity: Wi-Fi, Bluetooth, RS-232, USB
• Logs RINEX at update rate up to 14 Hz
• IP67
• 30 hours on 1 charge
• FCC and CE certified
REACH RS +
Technical specifications

72 channel. Signals tracked
GPS/QZSS: L1C/A,
GPS/QZSS: L1C/AGLONASS: L10F,
Galileo: E1,
BeiDou (COMPASS): B1,
SBAS

Positioning Rates 1 Hz, 2 Hz, 5 Hz, 10 Hz, and 14 Hz (GPS only)

POSITIONING PERFORMANCE

Static GNSS surveying
Single Baseline <30 km
Horizontal 5 mm + 1 ppm RMS
Vertical 10 mm + 2 ppm RMS

Real Time Kinematic surveying
Single Baseline <10 km
Horizontal 7 mm + 1 ppm RMS
Vertical 14 mm + 2 ppm RMS
RTK TFF 1 to 2 minutes

Post Processed Kinematic surveying
Single Baseline <10 km
Horizontal 7 mm + 1 ppm RMS
Vertical 14 mm + 2 ppm RMS

Specified in open sky view, optimal conditions and when following
standard survey practices. Precision depends on satellite geometry,
obstruction, EMI and multipath.

HARDWARE

Physical
Dimensions (LxW×H) 145 mm x 145 mm x 85 mm
Weight 0.69 kg (1.52 lbs) with internal battery

Environmental
Operating t. -20° C to +65° C (-4° F to +149° F)
Storage t. -40° C to +75° C (-40° F to +167° F)
Humidity 100%, condensing
Ingress Protection IP67 dustproof, protected from temporary immersion
to depth of 1 m (3.28 ft)

Electrical
Charging Micro-USB
External power input rugged connector, 6–40 V
Battery LiFePO4 3.2V, 30.72 Wh
Operating time on internal battery 30 hours

COMMUNICATIONS AND DATA STORAGE

• 9PIN port – RS-232, PPS, Event
• USB OTG
• Internal Radio Modem: LoRa technology
  Reliable link on up to 19 km baseline
  Transmit power up to 100 mW
  Configurable 863-928 MHz carrier
• Built-in short-range Wi-Fi 802.11 b/g/n, WEP, WPA, WPA2 encryption
• Built-in short-range Bluetooth 4.0/2.1 EDR
• Data storage 8 GB internal memory
• Raw logs in RINEX, UBX
• External Radio Modem connectivity over RS-232/USB OTG
• External Cellular Modem connectivity over USB OTG
• RTCM 2.x, RTCM 3.x input over Wi-Fi, Bluetooth, LoRa, USB, RS-232, NTRIP, external cellular modem, VRS (RTN) supported
• RTCM 3.x output over Wi-Fi, Bluetooth, LoRa, USB, RS-232, NTRIP, external cellular modem
• NMEA-0183, ERB output over Wi-Fi, Bluetooth, LoRa, USB, RS-232, external cellular modem

CERTIFICATIONS
1999/5/EC R&TTE, 2014/35/EU LVD
and 2014/30/EU EMC

YOUR LOCAL DEALER

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standard survey practices. Precision depends on satellite geometry,