

EMUD

REACH RS+

Datasheet



Key features

- High performance dual-feed antenna with large ground plane
- Comes with the ReachView 3 app for iOS and Android
- 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
- Polycarbonate body
- 30 hours on 1 charge
- FCC and CE certified

REACH RS+

Technical specifications

MECHANICAL

Ingress protection	IP67
Dimensions	145 x 145 x 85 mm
Weight	690g
Operating temperature	-20 °C to +65 °C

ELECTRICAL

Autonomy	up to 30 hours
Charging	Micro USB 5 V
External power input	6-40V
Certification	FCC, CE
Battery	LiFePO4 3.2 V

GNSS

Signals	GPS/QZSS L1, GLONASS G1, BeiDou B1, Galileo E1, SBAS
GPS / GNSS	14Hz / 5 Hz
Number of channels	72
IMU	9DOF

POSITIONING

Static horizontal	5 mm + 1 ppm
Static vertical	10mm + 2 ppm
Kinematic horizontal	7 mm + 1 ppm
Kinematic vertical	14 mm + 2 ppm

DATA

Corrections	NTRIP, RTCM3
Position output	NMEA, LLH/XYZ
Data logging	RINEX with events up to 14 Hz
Internal storage	8 GB

CONNECTIVITY

LoRa radio	up to 8 km 868 / 915 MHz
Wi-Fi	802.11 b/g/n
Bluetooth	4.0/2.1 EDR
Ports	RS-232, Micro USB

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



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