

RS-1

GNSS REFERENCE STATION YOUR RUGGED PNT PARTNER



BENEFITS:

- Utilizes 100% of the native capabilities of the GNSS board.
- Designed to meet the construction of CORS scenarios, stable electrical design and IP67 protection level, stable and long time operation.
- Built-in WEB interface, USB one-step configuration of BASE and ROVER mode, and easy access to high precision through the built-in NTRIP function.
- The lightning protection design of the antenna helps entrepreneurs to protect their core assets.

FEATURES

Physical

Interfaces: USB2.0, TNC, LM12
LM12 includes power, RS232*2, RJ45
Size: 44*130*78mm
Weight: 260g

Protocols

NMEA 0183, v2.3, v3.03, v4.0
RTCM v2.x, v3.x(MSM4/5/6/7 included)
CMR v2.0(out/in), CMR+(input only)
RINEX v2.x, v3.x
SBF

GNSS CONSTELLATIONS

GPS: L1C/A, L1PY, L2C, L2P, L5
GLONASS: L1CA, L2CA, L2P, L3 CDMA
BDS: B1I, B1C, B2a, B2b, B2I, B3
GALILEO: E1, E5a, E5b, E5 AltBoc, E6
QZSS: L1C/A, L1 C/B, L2C, L5
NAVIC: L5
SBAS

PERFORMANCE

RTK performance

Horizontal accuracy: 0.6cm+0.5ppm
Vertical accuracy: 1cm+1ppm
Initialization time: 7s
SBAS: H0.6m, V0.8m
DGNSS: 0.4m, 0.7m
Standalone: H1.2m, V1.9m
Velocity accuracy: 3cm/s

MAX update rate

Position: 100Hz
Measurements only: 50Hz

Electrical

Input voltage: 12V (support 9-36V)
Power consumption: 1.5W max
Storage: 64GB

Environmental

Operating temp; -40 to 85°C
Storage temp: -55 to 85°C
Certification:
CE, RoHS, WEEE, UKCA

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