Sfaira ONE GNSS Receiver







? Sfaira One GNSS RTK ????? ???? ?????? ?? ?????????? ?????? ?????? ???????????? ???????????? ??? Network Rover ?????. ????????????? ??? ?????? ????????? ??????. ???????? ???????? 4800 mAh, ????????????? 16 ???? ???????? ?????? ????????, ??? ??????? ???? USB type-C.

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- **SATELLITES TRACKING**

Channels: 1408
BDS: B1I, B2I, B3I, B1C, B2a, B2b*
GPS: L1 C/A, L1C*, L2P, L2C, L5
GLONASS: L1, L2, L3*
Galileo: E1, E5a, E5b, E6*
QZSS: L1, L2, L5
Cold start: <30s
Warm start: <20s
RTK initialization time: RTK initialization reliability: >99.9%
Re-acquisition: <1s

DATA FORMAT

Positioning data format: NMEA-0183
Correction data format: RTCM v3.3/3.2/3.1/3.0
Data protocol: Ntrip
Data update rate: 1 Hz
Baud rate: 115200 bps

COMMUNICATION

Bluetooth: BT2.0
Interface: Type-C, for charging and firmware upgrade

ACCURACY

Standalone:
- 1.5m Horizontally
- 2.5m Vertically
DGPS:
- 0.4m Horizontally
- 0.8m Vertically
RTK:
- 8mm+1ppm Horizontally
- 15mm+1ppm Vertically

PHYSICAL

Size: ?50 mm ×149 mm
Weight: 409g
Button: 1 power button
Indicator: 2 LEDs, indicating satellite tracking and battery status

ELECTRICAL

Power consumption: 1.0 W
Input voltage: 5V DC ? 2A
Battery: 4800 mAh
- 2 hours fast charge
- 16 hours working time, with continuous Bluetooth transmission, satellite tracking and RTK surveying

ENVIRONMENTAL

Working temperature: -45 ? to + 75 ?
Storage temperature: -55 ? to + 85 ?
Waterproof & dustproof: IP65
Drop: Designed to survive a 1.5m drop onto concrete

*BDS B2b, GPS L1C, GLONASS L3 and Galileo E6 signals are reserved for future upgrade.