



Precision in Your Pocket – Big Tech, Zero Bulk!

The APS1 (Orange) is a lightweight (210g), high-precision RTK GNSS receiver offering centimeter-level accuracy for GIS, surveying, and asset tracking. With multi-constellation support (including BeiDou-3), IP67 ruggedness, and 10+ hour battery life, it delivers reliable performance in challenging environments. Its compact, wearable design seamlessly integrates with smartphones and GIS software for real-time data collection and tracking. Perfect for surveyors, engineers, construction teams who need precision, mobility, and reliability in a single device.

Centimeter-Level IMU GNSS Precision

Supports 5 satellite systems (GPS, GLONASS, Galileo, BeiDou, QZSS) with 16 frequency bands and 1408 channels IMU60° for uninterrupted signal reception. Delivers RTK-level accuracy with fast fixation, ideal for surveying, mapping, and machine control.

All-Day Battery with Fast Charging

1800mAh battery provides 10+ hours of continuous use on a single charge. Type-C fast charging minimizes downtime in the field.

Ultra-Compact & Wearable Design

Weighs only 210g with dimensions of 118mm × 52mm × 36mm —small enough to clip onto a belt or backpack. Metal casing enhances durability while maintaining excellent heat dissipation.



APS1

Rugged & Weatherproof Build

IP67-rated for waterproof, dustproof, and shock resistance (withstands 1.6m drops). Reliable performance in harsh environments, including rain, dust, and extreme temperatures.

Smart Device & GIS Software Compatibility

Wirelessly pairs with Android devices via Bluetooth for real-time data streaming. Works with major GIS apps, enabling CAD-based surveying, road construction layouts, and fleet tracking.

GNSS Performance

Channels	1408
Satellites tracking	GPS: L1C/A, L2P(Y), L2C, L5 GLONASS: L1, L2 GALILEO: E1, E5a, E5b, E6 BDS: B1I, B2I, B3I, B1C, B2a, B2b QZSS: L1, L2, L5, L6 SBAS : Support
Position accuracy	RTK H: 2 cm+1ppm, V: 3cm+1ppm Single H: 1.5 m, V: 2.5 m
Initialization time	≤5 seconds (Typical)
Cold start	≤30 seconds
Hot start	≤3 seconds
Speed accuracy	≤0.03 m/s

Electrical

Battery	Built-in, Non-replaceable, Lithium Polymer Battery 7.4 V / 1800 mAh.
Working time	≥10 hours
Input voltage	5V dc / 2A

Data Interface

Bluetooth	Yes
Type-C port	1 Type-C port

User Interface

Button	Power button x1
Indicator	Power indicator x1 Bluetooth indicator x1 Differential data indicator x1 Satellite indicator x1
Buzzer	Yes

Physical

Dimension	118 mm x 52 mm x 36 mm
Weight	≤210 g

Environment

Operating temperature	-20°C - +75°C
Storage temperature	-40°C - +85°C
Water/dust-proof	IP67
Shock resistance	1.6 m free drop
Humidity	95% No condensation



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