

# eSA1

## PORTABLE SMART ANTENNA FOR GIS APPLICATIONS

The eSurvey eSA1 is a rugged, compact, wearable, wire-free smart antenna that efficiently captures high-quality data and allows you to work in multiple survey tasks. Connect the eSurvey eSA1 to mobile devices or PC with Android and Windows operating systems, thanks to its built-in 4G LTE/ Wi-Fi and Bluetooth technology. Use its internal Web user interface as a convenient app to modify configurations, including Ntrip setup. Bring it anywhere, without the worry of cables.



### Flexible Wearable Modes

The eSurvey eSA1 weighs only 303.5 g and measures 139 mm x 80 mm x 31 mm it is perfect for mobile surveys. Carry it in your armband bag, hang it on your waist, or attach it to a pole for a greater mobility.

### High-Capacity Longer Battery Life

Premium 6000 mAh Lithium-ion battery and low-power assumption supports over 12-hour continuous operation on a single charge.

### Designed for Tough Environments

The eSurvey eSA1 is hard wearing and durable, while still being appealing and fit for its purpose. IP67 certified “dust tight” and weatherproof protection combined with a wide operating temperature range (between -30° C to 65 ° C) provides 24/7 operation, regardless of the environment.

### Multi-constellation

Embedded with a high precision GNSS module that is capable of tracking GPS, BDS, GLONASS, GALILEO constellations.



Website



Social media

# Product Specification

## eSA1

INTEGRATED RUGGED GNSS HANDHELD  
FOR GIS DATA COLLECTION



GNSS Performance	
OEM board	Ublox-F9P
Channels	184
Satellites tracking	GPS: L1
	BDS: B1
	GLONASS: L1
	GALILEO: E1
Update rate	RTK: up to 10 Hz
Position accuracy	RTK: 1-3 cm
Initialization time	RTK: ≤ 10 seconds
Cold start	24 seconds
Aided start	2 seconds
Signal reacquisition	2 seconds

Electrical	
Battery	Built-in and non-replaceable battery 3.85 V / 6120 mAh
Working time	≥12 hours (Rover mode at room temperature)
Input voltage	5V dc / 2A

System	
Operating system	Linux
Memory	512M DDR3
Storage	8 GB
Bluetooth	BT5.0
Wi-Fi	2.4GHz, 802.11b/g/n
4G LTE	Yes

Data Interface	
Type-C port	1 Type-C port, USB 2.0 (No OTG)

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

Physical	
Dimension	139 mm x 80 mm x 31 mm
Weight	303.5 g

Environment	
Operating temperature	-30°C - +65°C
Storage temperature	-40°C - +80°C
Water/dust-proof	IP67
Shock resistance	■ 2 m toppling over with a pole to concrete floor at normal temperature
	■ 1.2 m free drop
Humidity	92%