



S599 GNSS Receiver

Compact and light
GNSS Receiver



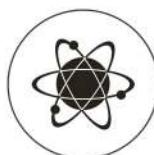
S599

Compact & Lightweight

The S599 GNSS receiver is an ideal solution for GIS professionals who need high accuracy positioning in a compact and portable device. Weighing just 380 grams and measuring only 98mm in width and 46mm in height, this ultralight receiver offers exceptional ease of use and is well-suited for long hours of field data collection.

Despite its small size, the S599 is IP68 rated and built to withstand tough field conditions, offering a durable and rugged design that ensures reliable performance in any environment.

Equipped with a built-in camera for AR stakeout and mapping, the S599 shows real-time navigation and distance to target points. Its impressive 12-hour battery life ensures full-day operation without the need to recharge, keeping your workflows uninterrupted.



MULTI-CONSTELLATION SYSTEM & PPP

The S599 is capable of tracking and utilizing signals from multiple global satellite constellations, including GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS.



IMU TECHNOLOGY

The S599 is equipped with cutting-edge IMU technology, enabling rapid initialization and accurate measurements even at inclinations of up to 60 degrees.



ULTRA-COMPACT & LIGHTWEIGHT

Weighing just 380 g and measuring only 98 x 46 mm, the S599 offers ultimate portability without compromising on performance.



INTEGRATED CAMERA FOR AR STAKEOUT

The built-in camera enables real-time visual stakeout, displaying the distance to the target point.



DURABLE AND RUGGED DESIGN

Despite its compact size, the S599 is built to endure tough field conditions and is rated IP68 for water and dust resistance.



STONEX



COMPACT, LIGHT, READY FOR GIS AND MORE

Paired with a survey pole mounted with a wheel, the S599 becomes the perfect tool for GIS professionals focused on road mapping and linear measurements. Its integrated IMU enables precise data capture even when tilted, allowing you to efficiently map and calculate areas and distances directly along the road.

OnePole

The Stonex OnePole Solution delivers unparalleled surveying versatility by combining one of Stonex's advanced robotic total stations with the ultra-compact, high-precision S599 GNSS receiver. This powerful integration enables seamless switching between Total Station and GNSS modes with just a tap, adapting effortlessly to any field condition.

Thanks to the compact size and state-of-the-art technology of the S599, surveyors enjoy true mobility without compromising accuracy. Coupled with Stonex's robotic total stations and supported by Cube-a software, the OnePole Solution ensures smooth communication, fast data exchange, and streamlined workflows.



cube-connector

Cube-connector is Stonex's intuitive Android app that seamlessly connects your S599 GIS GNSS receiver to any Android device via Bluetooth. By replacing your device's internal GPS with the high-precision data from the S599, Cube-connector delivers the accuracy and reliability essential for GIS and surveying applications.

S599 TECHNICAL FEATURES

RECEIVER		BUILT-IN CAMERA FOR STAKEOUT	
	GPS: L1 C/A, L1C, L2P, L2C, L5	Resolution	2 MP
	GLONASS: L1, L2, L3	Image frame	25 frame/s
Satellite signals tracked	BEIDOU: B1I, B2I, B3I, B1C, B2a, B2b	Field of view	88°
	GALILEO: E1, E5a, E5b, E6		
	QZSS: L1, L2, L5, L6		
	IRNSS: L5		
	SBAS		
PPP	B2b PPP, HAS	I/O Connectors	Type-C for charging and data transfer
Channels	1408	Bluetooth	2.1 + EDR, V5.0
Position Rate	Up to 20Hz	Wi-Fi	802.11 b/g/n
Signal Reacquisition	< 1 s	Web UI	To upgrade the software, manage the status and settings, and download data. Smartphone, tablet, or other electronic device with Wi-Fi capability can be used.
RTK Signal Initialization	< 5 s	Reference outputs	CMR, RTCM 3.0, RTCM 3.2, DGPS
Hot Start	Typically < 15 s	Navigation outputs	NMEA 0183
Initialization Reliability	> 99.9 %		
Operating system	Linux		
Internal Memory	8 GB		
IMU Rate	200 Hz		
Tilt Range	± 60°		
Tilt Accuracy	2 cm at 30° - 4 cm at 60°		
POSITIONING ¹		POWER SUPPLY	
HIGH PRECISION STATIC SURVEYING		Battery	Internal battery not removable, 3.65V, 6000 mAh
Horizontal	2.5 mm + 0.5 ppm RMS	Power	Type-C PD 12V
Vertical	5 mm + 0.5 ppm RMS	Working Time	Up to 12 hours
REAL TIME KINEMATIC (< 30 Km) - NETWORK RTK ²		Charge Time	Typically 4 hours
Fixed RTK Horizontal	8 mm + 1 ppm RMS		
Fixed RTK Vertical	15 mm + 1 ppm RMS		
PPP Accuracy	< 20 cm RMS	PHYSICAL SPECIFICATION	
SBAS Accuracy ³	< 60 cm RMS	Dimensions	98 mm x 98 mm x 46 mm
INTEGRATED GNSS ANTENNA		Weight	385 g
High accuracy multi-constellation antenna, zero phase center, with internal multipath suppressive board		Operating Temperature	-30°C to 60°C (-22°F to 140°F)
		Storage Temperature	-40°C to 80°C (-40°F to 176°F)
		Waterproof/Dustproof	IP68
		Shock Resistance	up to 1.5 m (no damage)
		Humidity	100% non-condensing

1. Accuracy and reliability are generally subject to satellite geometry (PDOP), multipath, atmospheric conditions, and obstructions. In static mode, they are also subject to occupation times: the longer the baseline, the longer the occupation time must be.
2. Network RTK precision depends on the network performances and are referenced to the closest physical base station.
3. It depends on the SBAS system's performance.

Illustrations, descriptions and technical specifications are not binding and may change

STONEX AUTHORIZED DEALER

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