

S999 GNSS Receiver Dual Camera GNSS Receiver **S999** S STONEX



S999 TECHNICAL FEATURES

RECEIVER		INTERNAL MODEM	
Satellite signals tracked	GPS: L1 C/A, L2P, L2C, L5 GLONASS: L1, L2 BEIDOU: B1I, B2I, B3I, B1C, B2a, B2b GALILEO: E1, E5a, E5b, E6 QZSS: L1, L2, L5, L6 IRNSS: L5 SBAS	Band	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18, B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8 Nano SIM card
PPP	B2b PPP, HAS	_	
Channels	1408	BELOW CAMERA	
Position Rate	Up to 50Hz	Resolution	2 MP
Signal Reacquisition	< 1 s	Image frame rate	30 frame/s
RTK Signal Initialization	< 5 seconds	Field of view	72°
Hot Start	Typically < 15 s	_	
Initialization Reliability	> 99.9 %	FRONTAL CAMERA	
Internal Memory	32 GB		0.140
Tilt Sensor	IMU ±60°	Resolution	2 MP
		Image frame rate	5 frame/s
POSITIONING ¹		Video frame rate	30 frame/s
HIGH PRECISION STATIC	SURVEYING	Field of view	75°
Horizontal	2.5 mm + 0.1 ppm RMS		
Vertical	3.5 mm + 0.4 ppm RMS	_ COMMUNICATION	
REAL TIME KINEMATIC (< 30 Km) – NETWORK RTK ²			
Fixed RTK Horizontal	8 mm + 1 ppm RMS	I/O Connectors	Type-C for charging and data transfer
Fixed RTK Vertical	15 mm + 1 ppm RMS	Bluetooth	2.1 + EDR, V5.0
PPP Accuracy	< 20 cm RMS	Wi-Fi	802.11 a/ac/b/g/n
SBAS Accuracy³ < 60 cm RMS INTEGRATED GNSS ANTENNA		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.
High accuracy multi-constellation antenna, zero phase center, with internal multipath suppressive board		Reference outputs	RTCM 3.x
ппсетнаї типпрації ѕиррге	SSIVE DOULU	Navigation outputs	NMEA 0183
INTERNAL RADIO (optional) ⁴		POWER SUPPLY	
Type Frequency Range	Tx - Rx 1W 410 - 470 MHz	— Battery	Built-in battery, 3.6V, 13.6AH, 48.96Wh, support for PD fast charge
	902.4 - 928 MHz	Power	12V DC
Channel Spacing	12.5 KHz / 25 KHz	Working Time	Up to 10 hours
Range ⁵	3-4 Km in urban environment Up to 10 Km with optimal conditions	Charge Time	Typically 4 hours
	•	PHYSICAL SPECIFICATION	
		Dimensions	Ø 139 mm x 74 mm
		Weight	1065 g
		Operating Temperature	-40°C to 65°C (-40°F to 149°F)
		Storage Temperature	-40°C to 80°C (-40°F to 176°F)
		Waterproof/Dustproof	IP68
		Shock Resistance	Designed to endure to a 2 m pole drop on hardwood floor with no damage
		Llumidity	100% non condensina

Humidity

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

- 4. Optional, can be activated via activation code.5. Varies with the operating environment and with electromagnetic pollution

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



100% non-condensing



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