

## S5 GNSS Receiver

GNSS Receiver  
for Mobile Applications



# TECHNICAL FEATURES

## GNSS Receiver for Mobile Applications

STONEX S5 uses the most modern connection technologies: even if the traditional Bluetooth connectivity is present, Stonex S5 Linux based System, is equipped with Wi-Fi connectivity, for an efficient, fast and reliable data connection with the external device. Thanks to the integrated GPRS modem, S5 can take advantage from existing GPS Networks, directly receiving corrections from the Network and without to keep busy the external device phone. Stonex S5 will give a decisive impulse to the productivity and to the quality of the positioning data: and using the already existent devices, as Smartphone and Tablet with Android, iOS, Windows operating system.

### RECEIVER

Satellite Tracked	GPS: L1
	GLONASS: L1
	BEIDOU: B1
	QZSS: L1
	SBAS: L1
Channels	372
Position Rate	Up to 20 Hz
Signal Reacquisition	< 1 sec
RTK Initialization	Typically > 10 min
Hot Start	Typically < 15 sec
Initialization Reliability	> 99.9 %

### POSITIONING<sup>1</sup>

HIGH PRECISION STATIC SURVEYING - EXTERNAL ANTENNA	
Horizontal	5 mm + 1 ppm RMS
Vertical	10 mm + 1 ppm RMS
CODE DIFFERENTIAL POSITIONING	
Horizontal	0.4 m RMS
SBAS POSITIONING <sup>2</sup>	
Horizontal	0.60 m RMS
REAL TIME KINEMATIC <sup>3</sup> - EXTERNAL ANTENNA	
Fixed RTK Horizontal	10 mm + 1 ppm RMS
Fixed RTK Vertical	20 mm + 1.5 ppm RMS

### INTEGRATED GNSS ANTENNA

Three constellation antenna with internal multipath suppressive board

### HARDWARE

Processor	AM355X
RAM	512 MB
Flash Memory	4 GB
Operation System	Linux

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

1. Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions and obstructions.
2. Depends on SBAS system performance.
3. Network RTK precision depends on the network performances and are referenced to the closest.



### INTERNAL MODEM

Band	GSM/GPRS/EDGE:
	850/900/1800/1900 MHz
	WCDMA/HSDPA:
	800/850/900/1900/2100 MHz

### COMMUNICATION

I/O Connectors	Multifunction cable with USB interface for PC connection Connector for external antenna
Bluetooth	2.1+EDR
Wi-Fi	802.11 a/b
Reference outputs	RTCM 2.1, 2.3, 3.0, 3.1 CMR, CMR+, RTCA

### POWER SUPPLY

Battery	Rechargeable 3.7 V - 6800 mAh
Working Time	Up to 8 hours (SBAS or Post Proces.) Up to 6 hours (DGPS/RTK with GSM)
Charge Time	Typically 6 hours

### PHYSICAL SPECIFICATION

Dimensions	119 mm x 86 mm x 32 mm
Weight	290 gr
Operating Temperature	-30°C to 65°C (-22°F to 149°F)
Storage Temperature	-40°C to 80°C (-40°F to 176°F)
Waterproof/Dustproof	IP67
Shock Resistance	Designed to endure to a 1.2 m pole drop on concrete floor with no damage

### STANDARD ACCESSORIES

2 pin adapter, 5.35 V/2A, USB cable, Soft bag

### OPTIONAL ACCESSORIES

Carbon fiber pole, Telescopic pole, External antenna L1, External antenna cable (1.6 m, 2 m, 5 m), Carrying case



STONEX AUTHORIZED DEALER

**STONEX®**  
Part of UniStrong

Via Cimabue 39 - 20851 Lissone (MB) Italy  
Phone +39 039 2783008 | Fax +39 039 2789576  
www.stonex.it | info@stonexpositioning.com