

# S700A TECHNICAL FEATURES

## RECEIVER

	GPS: L1 C/A, L1C, L1P, L2C, L2P, L5 GLONASS: L1 C/A, L1P, L2 C/A, L2P, L3 BEIDOU: B1, B2, B3, ACEBOC GALILEO: E1, E5a, E5b, ALTBOC, E6 QZSS: L1 C/A, L1C, L2C, L5, L6 IRNSS: L5 SBAS: L1, L5
Signal Tracking	
L-Band	Atlas H10 / H30 / Basic (optional) <sup>4</sup>
Bridging of RTK outages	aRTK - Works up to 20 minutes
Channels	700
Position Rate	5 Hz (optional 20Hz) <sup>4</sup>
Signal Reacquisition	< 1 s
RTK Signal Initialization	Typically < 10 s
Hot Start	Typically < 15 s
Initialization Reliability	> 99.9 %
Internal Memory	8 GB

## POSITIONING<sup>1</sup>

<b>HIGH PRECISION STATIC SURVEYING</b>	
Horizontal	2.5 mm + 1 ppm RMS
Vertical	5.0 mm + 1 ppm RMS
<b>CODE DIFFERENTIAL POSITIONING</b>	
Horizontal	<0.5 m RMS
Vertical	<1.0 m RMS
<b>SBAS POSITIONING</b>	
Horizontal	<0.6 m RMS <sup>2</sup>
Vertical	<1.2 m RMS <sup>2</sup>
<b>REAL TIME KINEMATIC (&lt; 30 Km) – NETWORK RTK<sup>3</sup></b>	
Fixed RTK Horizontal	8 mm + 1 ppm RMS
Fixed RTK Vertical	15 mm + 1 ppm RMS

## INTEGRATED GNSS ANTENNA

High accuracy four constellation micro-strip antenna, zero phase center, with internal multipath suppressive board

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

- 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 is the Baseline, the longer must be the occupation time.
- Depends on SBAS system performance.
- Network RTK precision depends on the network performances and are referenced to the closest physical base station.
- Optional, it can be activated via activation code.

## INTERNAL MODEM

	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
Band	

## COMMUNICATION

I/O Connectors	5 pins Lemo, connect the external power supply and external radio Type-C, for receiver power supply and data transfer
Bluetooth	V2.1 + EDR /4.0 LE
Wi-Fi	802.11 b/g To upgrade the software, manage the status and settings, data download, etc. via smartphone, tablet or other electronic device with Wi-Fi capability
Web UI	RTCM 2.3, 3.2 CMR, CMR+, ROX NMEA 0183
Reference outputs	
Navigation outputs	

## POWER SUPPLY

Battery	Internal rechargeable 7.2 V – 6.900 mAh
Voltage	9 to 28 V DC external power input with over-voltage protection (5 pins Lemo)
Working Time	Up to 9 hours
Charge Time	Typically 4 hours

## PHYSICAL SPECIFICATION

Dimensions	140 mm x 140 mm x 71 mm
Weight	1.10 Kg
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 2 m pole drop on concrete floor with no damage
Vibration	Vibration resistant



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