

SOKKIA

SA300

**Dual Constellation
Dual Frequency Antenna**



- **Precision Tuned**
- **Micro-Centered Design**
- **Rugged Enclosure with High Shock and Vibration Tolerance**

SA300

Dual Constellation, Dual Frequency Antenna

SPECIFICATIONS



Dual Frequency Dual Constellation Antenna

The SA300 high-precision micro-centered antenna with integrated ground plane provides excellent tracking sensitivity and multipath rejection for all surveying applications. The SA300 antenna supports L1/L2 frequencies from GPS and GLONASS satellite constellations. The SA300 can be paired with applicable Sokkia GNSS receivers to provide a high-performance dual-frequency RTK system.

The SA300 antenna system offers IP67 dust and water resistance as well as superior level of vibration and shock tolerance (IEC 60068-2). With its compact and ultra-rugged design, the SA300 is the most robust antenna in the market today.

Operating Frequency Range	
L1 GPS/GLONASS	1586.5 ± 25MHz
L2 GPS/GLONASS	1236 ± 20MHz
Out of Band Rejection	
L1	± 100MHz -30 dBc (typical)
L2	± 200MHz -60 dBc (typical)
Gain, Noise Figure and VSWR	
LNA Gain	33 dB (typical)
Gain at Zenith (90°)	GPS L1 5.5 dBic (min) GPS L2 5.5 dBic (min) GLONASS L1 4.5 dBic (min) GLONASS L2 4.5 dBic (min)
Noise Figure	1.5 dB (typical)
VSWR	≤ 2.0:1
Nominal Impedence	50 Ohms
Connector and Mounting	
Antenna Connector	TNC
Mount	5/8-11 UNC-2B thread
Physical Characteristics	
Dimension (W x H x L)	141.6 x 141.6 x 54.2mm
Weight	615g
Centering	< 1mm, micro-centered
Power	
Input Voltage Range	3-18 VDC. Reverse Polarity Protected
Power Consumption	55mA (typical)
Environmental	
Enclosure	Aluminum with Plastic Radome
Operating Temperature	-50°C to 85°C
Storage Temperature	-55°C to 85°C
Dust/Water Protection	IP67
Random Vibration	IEC 60068-2-34, Test Fd
Sinusoidal Vibration	IEC 60068-2-6, Test Fc
Shock	IEC 60068-2-29 Test Ea
Bump	IEC 60068-2-29 Test Eb
Drop	2m pole drop to concrete

Related Products

Sokkia GHX2 Network Rover System

GHX2 network rover system is an all-in-one handheld GNSS receiver and field controller featuring a high-speed processor, increased memory, cellular modem, built-in camera, *Bluetooth*[®], and Wi-Fi.



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SOK-1026 Rev A 7/14

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