

SA102

GNSS ANTENNA

Superior Partner of Your GNSS Applications



FULL-CONSTELLATION

SA102 offers full constellation coverage, tracking GPS, GLONASS, BeiDou, Galileo, QZSS, and more, ensuring stable satellite signals for your needs. Featuring high gain and wide beamwidth, ensuring superior signal reception even in heavily obstructed areas and at low elevation angles.

RELIABLE DESIGN

Featuring a multi-point feeding design, the antenna achieves greater phase center stability to ensure positioning accuracy. Employing anti-interference technology, the antenna operates reliably in complex environments. Encased in an IP67 housing, it also withstands temperature variations, water exposure, and UV rays, ensuring prolonged outdoor operation.

WIDE APPLICATIONS

With its robust signal tracking and structural design, the SA102 finds extensive utility in wide positioning related applications, such as land surveying, machine control, precision agriculture, robotics, vehicle navigation, and beyond.

ANTENNA SPECIFICATIONS

Signal Tracking	- BDS: B1I, B2I, B3I, B1C, B2a, B2b1 - GPS: L1 C/A, L1C, L2P, L2C, L5 - GLONASS: G1, G2, G3 - Galileo: E1, E5a, E5b, AltBoc - QZSS: L1, L2, L5 - SBAS: Support - L-Band: Support
Impedance	50 Ohm
Polarization	RHCP
Axial Ratio	≤3dB
Azimuth Coverage	360°
Phase Center Accuracy	±2mm
VSWR Output	≤1.5

LNA SPECIFICATIONS

LNA Gain	36±2dB
Noise Figure	≤1.8dB
VSWR Output	≤2.0
Operation Voltage	3.3~5.5V
Operation Current	≤40mA

PHYSICAL

Dimension	Φ150×58.4mm
Connector	TNC-K
Weight	≤400g

ENVIRONMENTAL

Operating Temperature	-45 °C ~ +70 °C
Storage Temperature	-55 °C ~ +85 °C
Humidity	95% No-condensing
Environmentally Sealed Type	IP67

All specifications are subject to change without notice.

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