



GNSS Antennas | **TSA520**

Four-system Full-frequency
High-performance Antenna

TSA520 Survey GNSS Antenna

TSA520 is an external measurement antenna that covers four systems, namely GPS, GLONASS, BDS and GALILEO, providing full-frequency compatibility. It meets the current requirements of multi-system compatibility for measurement devices. It finds extensive applications in geodetic surveying, marine measurement, channel surveying, land surveying, seismic monitoring, bridge deformation monitoring, landslide monitoring, container operations at ports, and other fields within the surveying industry.

SPECIFICATION

SIGNAL RECEIVED		MECHANICAL	
GPS	L1/L2/L5	Noise Figure	<2dB
GLONASS	L1/L2/L3	Output/Input VSWR	<2.0
GALILEO	E1/E5a/E5b/E6	Operation Voltage	+3.3VDC to +12VDC
BDS	B1/B2/B3	Operation Current	<45mA
QZSS	L1/L2/L5/L6	Group Delay Ripple	<5ns
SBAS	L1/L5	MECHANICAL	
NavIC (IRNSS)	L5	Dimensions	φ152mm*62.2mm
L-Band		Connector	TNC female
ANTENNA FEATURE		Weight	<400g
Phase Center Offset	±2mm	Mounting	BSW5/8"-11 screw, dept12-14mm
Nominal Impedance	50Ω	ENVIRONMENTAL	
Polarization	RHCP	Temperature	Operating -40 °C to +85 °C Storage -55 °C to +85 °C
Axial Ratio	<3dB	Humidity	95% non-condensing
Gain at Zenith (90°)	4.5dBi	Protection	IP67
LNA Gain	L1: 34±2dB L2: 36±2dB		

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Manufacturers may update parameters at any time, please refer to the latest product information.



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