



GNSS Antennas | TSA1000

Four-system full-frequency
high-precision GNSS Antenna

TSA1000 Survey GNSS Antenna

TSA1000 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		ENVIRONMENTAL	
GPS	L1/L2/L5	Output/Input VSWR	≤2.0	Temperature	Operating -40 °C to +85 °C Storage -55 °C to +85 °C
GLONASS	L1/L2/L3	Operation Voltage	+3.3VDC to +12VDC	Humidity	95% non-condensing
GALILEO	E1/E5a/E5b/E6	Operation Current	≤45mA	Protection	IP67
BDS	B1/B2/B3	Group Delay Ripple	<5ns	Regulatory Compliance	NGS, FCC, CE, RoHS
QZSS	L1/L2/L5/L6	Dimensions		Dimensions	
SBAS	L1/L5	Connector		Dimensions	
NavIC (IRNSS)	L5	Weight		Dimensions	
L-Band		Mounting		Dimensions	
ANTENNA FEATURE					
Nominal Impedance	50 Ω	Dimensions		Dimensions	
Polarization	RHCP	Connector		Dimensions	
Axial Ratio	≤3dB	Weight		Dimensions	
Gain at Zenith (90°)	1164-1300MHz 5.5dBi(maximum) 1525-1615MHz 5.5dBi(maximum)	Mounting		Dimensions	
LNA Gain	40dB(typical)	Dimensions		Dimensions	
Noise Figure	≤2dB	Dimensions		Dimensions	

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



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