



GNSS Antennas

TSA320

Four-system Full-frequency
External Antenna

TSA320 Survey GNSS Antenna

TSA320 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	
GPS	L1/L2/L5
GLONASS	L1/L2/L3
GALILEO	E1/E5a/E5b/E6
BDS	B1I/B2I/B3I/B1C/B2a/B2b
QZSS	L1/L2/L5/L6
SBAS	L1/L5
NavIC (IRNSS)	L5
L-Band	

ANTENNA FEATURE	
Phase Center Offset	2mm
Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio	3dB
Gain at Zenith (90°)	5dBi
LNA Gain	L1: 342dB
	L2: 362dB

Noise Figure	2dB
Output/Input VSWR	2.0
Operation Voltage	+3.3VDC to +12VDC
Operation Current	45mA
Group Delay Ripple	5ns

MECHANICAL	
Dimensions	φ27.5mm*59mm
Connector	SMA Male
Weight	25g
Mounting	Refer to installation guidance

ENVIRONMENTAL	
Temperature	Operating -40 to +85 Storage -55 to +85
Humidity	95% non-condensing
Protection	IP67

Operating vibration specifications require compliance with the industry vehicle vibration national standards such as GBT-3871, GBT-2423, and GBT-28046

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



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