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TOKNAV



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	
GPS	L1/L2/L5
GLONASS	L1/L2/L3
GALILEO	E1/E5a/E5b/E6
BDS	B1/B2/B3
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°)	4.5dBi
LNA Gain	L1: 34 ± 2dB L2: 36 ± 2dB

Noise Figure	≤2dB
Output/Input VSWR	≤2.0
Operation Voltage	+3.3VDC to +12VDC
Operation Current	≤45mA
Group Delay Ripple	≤5ns
MECHANICAL	
Dimensions	φ152mm*62.2mm
Connector	TNC female
Weight	≤400g
Mounting	BSW5/8"-11 screw, dept12-14mm
ENVIRONMENTAL	
Temperature	Operating -40℃ to +85℃ Storage -55℃ to +85℃
Humidity	95% non-condensing
Protection	IP67

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



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