



GNSS Antennas
TCA920
2D Choke Ring Antenna

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TOKNAV TCA920 Choke Ring Antenna is a high performance GNSS antenna for base station that covers full frequency satellite signal tracking of GPS, GLONASS, GALILEO, BDS, QZSS, SBAS, IRNSS, as well as L-Band correction service. The 2D choke coil with strong multipath suppression performance that specifically designed for applications as land and marine surveying, channel surveying, earthquake and landslide monitoring, deformation monitoring, and wharf container operations that require absolute positioning accuracy and multi-constellation support.

SPECIFICATION

SIGNAL TRACKING

GPS	L1/L2/L5/L-Band
GLONASS	L1/L2/L3
GALILEO	E1/E5a/E5b/E6
BDS	B1/B2/B3
QZSS	L1/L2/L5/L6
SBAS	L1/L5
NavIC (IRNSS)	L5

LNA

Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio	≤2dB
Gain at Zenith (90°)	1205-1278MHz 6dBi(maximum) 1559-1615MHz 6dBi(maximum)
LNA Gain	50dB(typical)
Noise Figure	≤2dB
Output/Input VSWR	≤2.0

Operation Voltage	+3.3VDC to +12VDC
Operation Current	60mA(maximum)
Group Delay Ripple	< 5ns

PHYSICAL

Dimensions	φ322mm*261mm
Connector	TNC female
Weight	5.6kg
Mounting	BSW5/8"-11 screw, depth22mm

ENVIRONMENTAL

Temperature	Operating -40°C to +85°C Storage -55°C to +85°C
Humidity	95% non-condensing
Protection	IP67
Regulatory Compliance	NGS, CE, FCC, RoHS

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



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