



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, depth ≥22mm

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

www.toknav.cn info@toknav.cn

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



Europe, North & South America
Tel & WhatsApp: +1 (323) 847-7713 (Ian)
Asia, Africa & Oceania
Tel & WhatsApp: +86 139 2607 5986 (Jeffrey)

Guangzhou Toksurvey Information Technology Co., Ltd
No. 9 Caipin Road, Building B, Room 801-6,
Huangpu District, Guangzhou, China