



GNSS Antennas
TCA930M
Mini 3D Choke Ring Antenna

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TOKNAV TCA930M 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, IRNSS, SBAS as well as L-Band correction service. It is a mini choke ring antenna 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
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	

LNA	
Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio	≤ 3dB
Azimuth Coverage	360°(Omni-directional)
Output VSWR	≤ 2.0
Peak Gain	6.5dBi
Phase Center Repeatability	± 1mm

LOW NOISE AMPLIFIER	
LNA Gain	50 ± 2dB
Noise Figure	≤ 2dB
Output VSWR	≤ 2.0
Passband Ripple	± 2dB
Operation Voltage	+3.3V to +12V DC
Operation Current	≤ 60mA
Differential Propagation Delay	≤ 5ns

PHYSICAL	
Dimensions	Φ185mm*148mm
Connector	TNC Female
Weight	≤ 2.5Kg
Mounting	5/8"x11 Screws

ENVIRONMENTAL	
Temperature	Operating -40°C to +85°C Storage -55°C to +85°C
Humidity	95% non-condensing

