

CHCNAV

C220GR2

**GNSS CHOKE-RING
GEODETIC ANTENNA**



**NAVIGATION &
INFRASTRUCTURE**



ACCURACY AND PERFORMANCE

The C220GR2 is a high-performance, multi-constellation GNSS choke ring antenna optimized for GNSS reference station applications and RTK network infrastructures. With exceptional multipath rejection and sub-millimeter phase center accuracy, the C220GR2 provides a durable and cost-effective solution for demanding positioning and navigation applications such as static and real-time geodetic reference stations, surveying, mapping, machine control, GIS and autonomous navigation.

SPECIFICATIONS

System		Physical	
Antenna type	Choke ring (Radome)	Noise	≤ 2 dB
Frequency	GPS: L1, L2, L5 GLONASS: L1, L2, L3 BDS: B1, B2, B3, B1c, B2a GALILEO: E1, E5A, E5B, E6 QZSS: L1, L2, L5, L6 NavIC: L5 SBAS: L	Dimension (D x H)	322 mm x 261 mm (12.7 in x 10.3 in)
LNA gain	50 dB	Weight	4.9 kg (173 oz)
LNA voltage	3 V DC to 18 V DC	RF connector	TNC
LNA current	≤ 50 mA	Operating temperature	-40°C to +85°C (-40°F to +185°F)
Polarization	Right Hand Circular	Threading	5" / 8"
Axial ratio	≤ 2 dB	Construction	Copper alloy
Phase center accuracy	± 1 mm	Antenna calibration	IGS
Impedance	50 Ohms	Vibration	MIL-STD-810G standard
VSWR	≤ 2.0	Ingress protection	IP67 waterproof and dustproof, protected

* All specifications are subject to change without notice.

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