

ANTENNA SERIES



KEY FEATURES

- *Hi-performance geodetic GPS/GNSS antenna*
- *Cost-effective and reliable performances*
- *5/8" threading for mounting on pole, pillars or tribrach*
- *Sub-centimeter phase center repeatability*
- *Compatible with CHC and 3rd party GIS and survey GPS/GNSS receivers*

The CHC GNSS antenna series provides a cost-effective solution to demanding positioning applications such as geodetic reference station, marine survey, dredging or GIS and mapping when high performances and reliability are required.

A110G **L1 GPS**

The A110G is designed to complement the CHC LT series for precision GIS and mapping applications.



A220GR **L1/L2 GPS + GLONASS**

The A220GR is a rugged GNSS antenna available for CHC N GNSS Sensors series.



C220GR **L1/L2 GPS + GLONASS**

The C220GR is a high performance GNSS choke ring antenna optimized for reference station applications.



Technical Specifications

Feature	A110G	A220GR	C220GR
Antenna type	Geodetic	Geodetic	Choke Ring
Frequency	GPS L1 SBAS	GPS L1 + L2 GLONASS L1 + L2 SBAS	GPS L1 + L2 GLONASS L1 + L2 SBAS
LNA Gain	27 dB ± 2 dB	40 dB	50 dB
LNA Voltage	3 - 15 VDC	3 - 18 VDC	3 - 18 VDC
LNA Current	≤ 25 mA	≤ 45 mA	≤ 50 mA
Polarization	Right Hand Circular	Right Hand Circular	Right Hand Circular
Axial Ratio	≤ 5dB	≤ 3 dB	≤ 3 dB
Phase center accuracy	± 2 mm	± 2 mm	± 1 mm
Impedance	50 Ohms	50 Ohms	50 Ohms
VSWR	≤ 1.5	≤ 2.0	≤ 2.0
Noise	≤ 2 dB	≤ 2 dB	≤ 2 dB
Dimension (DxH)	140 x 58 mm (5.5 x 2.3 in)	147 x 62 mm (5.8 x 2.4 in)	322 x 261 mm (12.7 x 10.3 in)
Weight	280 g (9.9 oz)	400 g (14.1 oz)	4.9 kg (173 oz)
RF Connector	TNC	TNC	TNC
Operating temperature	-40°C to +85°C (-40°F to 185°F)	-40°C to +85°C (-40°F to 185°F)	-40°C to +85°C (-40°F to 185°F)
Threading	5/8"	5/8"	5/8"
Construction			Copper alloy



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