

# Antenna

**GNSS Infrastructure** 



### **Hardware Description**

# **Antenna**

Accuracy & Performances

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

#### **A220**

#### GPS + GLONASS + BDS + Galileo

The A220GR is a rugged GNSS antenna designed for positioning and navigation applications using the CHC N and P GNSS Sensors series.



#### C220GR2

#### GPS + GLONASS + BDS + Galileo

The C220GR2 is a high performance GNSS choke ring antenna optimised for reference station applications.



# **Core Technology**

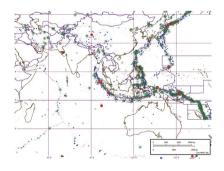








### **Applications**







## **Specifications**

A220GR	C220GR2
Geodetic	Choke ring (Radome)
GPS L1 + L2	GPS L1 + L2 + L5
GLONASS L1 + L2	GLONASS L1 + L2 +L3
BDS	BDS B1, B2, B3
GALILEO	GALILEO E1, E5A, E5B, E6
SBAS	SBAS
40 dB	50 dB
3 V DC to 18 V DC	3 V DC to 18 V DC
≤ 45 mA	≤ 50 mA
Right Hand Circular	Right Hand Circular
≤ 3 dB	≤ 3 dB
± 2 mm	± 1 mm
50 Ohms	50 Ohms
	Geodetic GPS L1 + L2 GLONASS L1 + L2 BDS GALILEO SBAS 40 dB 3 V DC to 18 V DC ≤ 45 mA Right Hand Circular ≤ 3 dB ± 2 mm

	A220GR	C220GR2
Noise	≤ 2 dB	≤ 2 dB
Dimension (D x H)	147 mm x 62 mm	322 mm x 261 mm
	(5.8 in x 2.4 in)	(12.7 in x 10.3 in)
Weight	400 g (14.1 oz)	4.9 kg (173 oz)
RF connector	TNC	TNC
Operating	-40°C to +85°C	-40°C to +85°C
temperature	(-40°F to +185°F)	(-40°F to +185°F)
Threading	5''/8''	5''/8''
Construction	None	Copper alloy
Antenna calibration	None	IGS
Vibration	MIL-STD-810G	MIL-STD-810G
	standard	standard
Ingress protection	IP67 waterproof and dustproof, protected from temporary immersion to depth of 1 m	

<sup>\*</sup>Specifications are subject to change without notice.



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