

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.



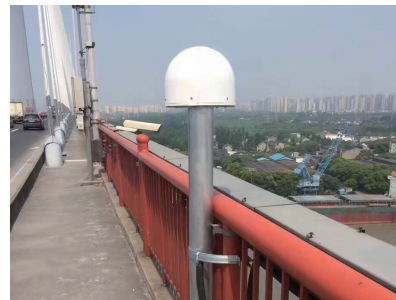
C220GR2

GPS + GLONASS + BDS + Galileo

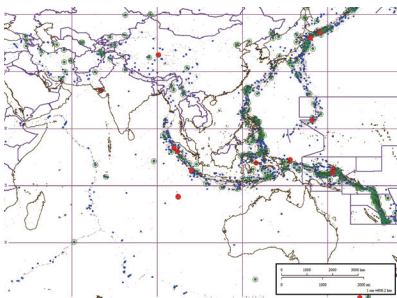
The C220GR2 is a high performance GNSS choke ring antenna optimised for reference station applications.



Core Technology



Applications



Specifications

	A220GR	C220GR2
Antenna type	Geodetic	Choke ring (Radome)
Frequency	GPS L1 + L2 GLONASS L1 + L2 BDS GALILEO SBAS	GPS L1 + L2 + L5 GLONASS L1 + L2 + L3 BDS B1, B2 GALILEO E1, E5A, E5B SBAS
LNA gain	40 dB	50 dB
LNA voltage	3 V DC to 18 V DC	3 V DC to 18 V DC
LNA current	≤ 45 mA	≤ 50 mA
Polarization	Right Hand Circular	Right Hand Circular
Axial ratio	≤ 3 dB	≤ 3 dB
Phase center accuracy	± 2 mm	± 1 mm
Impedance	50 Ohms	50 Ohms
VSWR	≤ 2.0	≤ 2.0

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

*Specifications are subject to change without notice.



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