

## Choke Ring Antenna **CR3 G3**



- The South CR-3 UHG provides a stable phase center offsets at sub-millimeter level to guarantee your reference station an excellent tracking performance.
- Choke rings design inside the antenna helps achieve an outstanding multipath rejection performance.
- High-gain design for low elevation tracking enhances signal availability for more satellites.
- Ultralow line loss on signal transmissions, enables connecting cable extend more than 100 meters carrying undamaged signals.
- Fully sealed core components, waterproof and dustproof design, make it withstand severe conditions for continuous work in the field

# CHOKE RING ANTENNA

## Specification

Minimum tracking elevation	0°
Practical tracking elevation	5°
Frequency Range	GPS L1/L2/L5 GLONASS L1/L2 BDS B1/B2/B3 GALILEO E1/E2/E5a/E5b/E6, Alt BOC
Supported SBAS signal bands	QZSS: L1, L2C, L5 SBAS: L1 C/A, L5 WAAS/EGNOS/MSAS/GAGAN/GAGAN
Phase-center accuracy	2mm
Phase-center repeatability	<1mm
Maximum phase-center eccentricity	2mm
Antenna gain	65dB
LNA features	Advanced filtering to reduce interference by high power out-of-band transmitters
LNA gain	50±2dB
Supply voltage	3V DC to 18V DC
Supply current (maximum)	40MA
Delay	5x10 <sup>-9</sup> s
Dimension	φ322*261mm
Element type	Microstripe antenna
Polarization	RHCP
Axial ratio	2dB at Zenith
Voltage standing wave ratio	2.0 maximum
Left-hand circular polarization	20dB
Multipath mitigation technologies	LHCP rejection and 1/4 wave choke ring ground plane
Ground plane design	1/4 wave choke ring
Coaxial connector	TNC female
Shock rating	1 m (3.28 ft) drop
Vibration rating	4.3 GRMS, random vibration profile; Z axis only
Humidity	95%
Operating temperature	-50 °C to +85 °C (-58 °F to 185 °F)
Storage temperature	-65 °C to +85 °C (-85 °F to 185 °F)
Mounting thread	5/8"x11 Female



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