

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 G1/G2 BDS B1/B2/B3 GALILEO E1/E2/E5a/E5b/E6 |
| Supported SBAS signal bands | WAAS/EGNOS/MSAS/GAGAN/GAGAN |
| Phase-center accuracy | 2mm or better |
| 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 ⁻⁹ s |
| Dimmension | φ322*261mm |
| Element type | Microstripe antenna |
| Porlarization | 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 temprature | -65 °C to +85 °C (-85 °F to 185 °F) |
| Mounting thread | 5/8"x11 Female |

