

GNSS and Network Solutions ► CR-G5



CR-G5

Ultra-reliable and rugged geodetic grade antenna for network applications

⊕ Product Info



If you are establishing a new CORS network or upgrading an existing service, the CR-G5 is the perfect antenna for all high accuracy 24/7 GNSS signal reception requirements.

- High-end geodetic antenna
- TA-5 vertical convex dipole antenna element for full spectrum GNSS signal tracking
- Topcon designed choke ring ground-plane
- Environmentally robust and sealed
- Improved phase-centre stability in vertical over expanded GNSS frequency band

⊕ Specifications

CR-G5 Specifications

Power and Electrical

Input Voltage	3 to 12 VDCVDC
Power Consumption	100 mA (typical)

Certifications and Standards

Dust/Water Protection	IP67 IEC 60529
Vibration Rating	Method 514.6, Broad band noise (random vibration), along each of 3 axes, Category 4, table 514.6C-IV

Performance

Operating Frequency Range	<i>Lower Band:</i> 1230±70 MHz (L5, E5B, E3, L2, G2, E4, E6) <i>Upper Band:</i> 1565±50 MHz (E2, L1, E1, G1, OmniStar, SBAS, CDGPS)
Out-of-Band Rejection* **	<i>Lower:</i> -60 dBc *** <i>Upper:</i> -40 dBc *** <i>f < 1000 MHz:</i> -60 dBc *** <i>f > 1750 MHz:</i> -60 dBc ***
LNA Gain***	43 dB
Gain at Zenith (90°)	<i>Lower band:</i> +7.5 dB *** <i>Upper band:</i> +5 dB ***
Gain Roll-Off (from Zenith to Horizon)	<i>Lower band:</i> -16.5 dB *** <i>Upper band:</i> -13 dB ***
Noise Figure	1.0 dB ***
VSWR	1.5 : 1
Differential Propagation Delay (typical)	<i>Lower band:</i> 3 ns (maximum) <i>Upper band:</i> 3 ns (maximum)
Nominal Impedance	50 Ohm
*(1232 MHz ± 100 MHz)	
**(1568.5 MHz ± 150 MHz)	
***Typical	

Physical and Environmental

Enclosure	MIL-STD-810G
Operating Temperature*	<i>Operating:</i> -50°C to 70°C
Storage Temperature	<i>Storage:</i> -55°C to 85°C
Humidity**	95%
Shock Rating	Method 516.6, along each of 3 axes. Procedure I - Functional Shock, Table 516.6-I, Fig. 516.6-8, accelerative forces up to 40g
Salt Fog***	5%
Drop Test	Repeated drops from the height of 1 m on concrete surface. All sides – top, bottom and border (with dome)
RoHS Compliant	Yes
Dimensions	<i>Antenna without anti-snow Dome:</i> 380 mm (D) x 155.5 mm (H) <i>Anti-snow Dome:</i> 380 mm (D) x 292 mm (H) <i>SCIGN dome:</i> 415 mm (D) x 287 mm (H)
Weight****	<i>Antenna:</i> 4.9 kg
*****	<i>Dome:</i> 1.1 kg
*****	<i>Antenna & Dome:</i> 6 kg
Connector Type	N-type
*Methods 501.4, 02.4	
**Method 507.5	
***Method 509.4	
****Antenna	
*****Topcon Anti-snow Spherical Dome	
*****Antenna w/ Topcon Anti-snow Spherical Dome	

Topcon Positioning Systems, Inc.

7400 National Drive

Livermore, CA United States

For more information, and to locate a dealer closest to you, visit:

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