



Full-Wave Campaign Antenna

The G5-A1 antenna has been designed to support all GNSS signals currently being broadcast or planned for the future. All modernized GPS signals, including GPS L5, are included. It also tracks all GLONASS, Galileo, BeiDou, and QZSS signals.

Built with hardened materials, the G5-A1 is the most robust economy, geodetic, campaign antenna on the market today.

- Full-wave, zero-centered geodetic reference station antenna
- Designed for highly efficient multipath reduction
- Ideal for portable geodetic market requirements
- All-in-view signal tracking

Operating Frequency Range	
Lower band	1230±70 MHz (E5a, L5, E5b, G3, B2, E3, L2, G2, E4, B3, E6)
Upper band	1570±40 MHz (E2, B1, L1, B1-2, E1, G1, SBAS)
Out of Band Rejection	
Lower band (1100...1380 MHz)	-30 dBc (typical)
Upper band (1510...1660 MHz)	-30 dBc (typical)
f < 1000 MHz	-50 dBc (typical)
f > 1800 MHz	-50 dBc (typical)
Gain, Noise Figure and VSWR	
LNA Gain	35 dB (typical)
Gain at Zenith (90°)	Lower band: 5.5 dBic (minimum) Upper band: 4.5 dBic (minimum)
Gain Roll-Off (from Zenith to Horizon)	Lower band: 13 dB Upper band: 10 dB
Noise Figure	1.0
VSWR	≤ 2.0 : 1
Differential Propagation Delay (typical)	6 ns (maximum)
Nominal Impedance	50 Ohm
Environmental	
Temperature (MIL-STD 810G)	Operating: -40°C to 75°C Storage: -40°C to 80°C
Water/Dust Rating	IP67 IEC 60529
Drop Test	Drop with pole from 2 m onto concrete surface
RoHS Compliant	Yes
Power	
Input Voltage	3 to 16 VDC
Power Consumption	65 mA (typical)
Physical	
Dimensions (d x h)	298 x 75 mm (antenna)
Weight	1.3 kg
Connector	TNC female



For more information:
topconpositioning.com/g5-a1

Specifications subject to change without notice.
 ©2016 Topcon Corporation All rights reserved.
 7010-2207 A 3/16

