G5-A1

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

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



Features & Benefits

- Full-wave, zero-centered geodetic reference station antenna
- Designed for highly efficient multi path reduction
- Ideal for portable geodetic market requirements
- Entry-level, low-cost, high-quality geodetic campaign antenna
- All-in-view satellite signal tracking

Performance	
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) Other bands: f f > 1800 MHz: -50 dBc (typical)
LNA Gain	35 dB (typical)

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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	
VSWR	≤ 2.0 : 1
Differential Propagation Delay (typical)	6 ns (maximum)
Nominal Impedance	50 ohm
Power	
Input Voltage	+3 to +16 VDC
Current Consumption	65 mA (typical)
Physical	
Dimensions	298 (D) x 75 (H) mm antenna
Weight	1.3 kg
Connector	TNC Female
Environmental	
Operating Range Temperature	-40°C to +75°C MIL-STD 810G, Method 501.5, High Temp, Procedure 2 MIL-STD 810G, Method 502.5, Low Temp, Procedure 2
Storage Range Temperature	-40°C to +80°C MIL-STD 810G, Method 501.5, High Temp, Procedure 1
Humidity	MIL-STD 810G, Method 507.5, Humidity, Procedure 2, Fully Sealed
Vibration	MIL-STD 810G, Method 514.6, Category 4, Table 514.6C-IV
Mechanical Shock	MIL-STD 810G, Method 516.6, Procedure 1 Functional Shock (Table 516.6-1, Figure 516.6-8)
Waterproof and Dustproof	IEC60529 IP67
Drop	Drop with pole from 2.0 m onto concrete surface.
RoHS Compliant	

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