PL-S1

TOPCON

Dual Frequency, Dual Constellation Antenna

- Featuring Topcon's High-performance Fence Antenna™ Technology
- Dual Frequency, Dual Constellation GNSS Antenna
- L-Band Compatible
- Rugged Enclosure with High Shock and Vibration Tolerance

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The PL-S1 is a newly designed dual-frequency and dual-constellation GNSS antenna offered at an affordable price. When accuracy requirements are flexible, this antenna is the best choice to provide maximum return on your investment. Like the geodetic-grade PG-S1 antenna, the new PL-S1 uses an integrated ground plane and Fence Antenna™ Technology for advanced multipath rejection and improved tracking sensitivity. For applications where Topcon's high-performance micro-centered antennas are not necessary, the PL-S1 delivers excellent signal tracking and mid-grade performance at an attractive price.

The PL-S1 antenna supports L1/L2 frequencies from GPS and GLONASS satellite constellations, as well as L-Band frequencies. The PL-S1 is designed to accompany all Topcon modular and handheld GNSS receivers when using Topcon's Spectrum RTK™ Technology.

Topcon TotalCare

This online resource comes with real live people ready to help. Get expert training from Topcon University's large collection of online materials, and expert help directly from Topcon Technical Support.

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SPECIFICATIONS

Operating Frequency Range	
L1 GPS/GLONASS	1586.5 ± 25MHz
L2 GPS/GLONASS	1236 ± 20 MHz
L-Band	1535 ± 10 MHz
Out of Band Rejection	
L1	± 100 MHz -30 dBc (typical)
L2	± 200 MHz -60 dBc (typical)
Gain, Noise Figure and VSWR	
LNA Gain	33 dB (typical)
Gain at Zenith (90°)	GPS L1 4.5 dBic (min) GPS L2 3.5 dBic (min) GLONASS L1 3.5 dBic (min) GLONASS L2 2.5 dBic (min) L-Band 1 dBic (min)
Noise Figure	1.5 dB (typical)
VSWR	≤ 2.0:1
Nominal Impedance	50 Ohms
Connector and Mounting	
Antenna Connector	TNC
Mount	5/8-11 UNC-2B thread
Physical Characteristics	
Dimension (W x H x L)	141.6 x 141.6 mm x 54.2 mm
Diameter with Ground Plane	200 mm
Weight without ground plane	430 g
Weight with ground plane	615 g
Centering	< 1 cm
Power	
Input Voltage Range	3-18 VDC. Reverse Polarity Protected
Power Consumption	55 mA (typical)
Environmental	
Enclosure	Aluminum with Plastic Radome
Operating Temperature	-50°C to 85°C
Storage Temperature	-55°C to 85°C
Waterproof & Dust Rating	IP67
Random Vibration	IEC 60068-2-34, Test Fd
Sinusoidal Vibration	IEC 60068-2-6, Test Fc
Shock	IEC 60068-2-29 Test Ea
Bump	IEC 60068-2-29 Test Eb
Mechanical Drop	2m pole drop to concrete

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