

Key Features

- Delivers L1/G1/E1 carrier frequency signals to GNSS synchronization modules and receivers
- Excellent filtering, with narrow bandwidth to preserve the GNSS signal and mitigate unwanted signals near the L1/G1/E1 carrier
- Lightning protection on the antenna element
- Integrated low noise amplifier with 30dB gain standard

Key Benefits

- Optimum signal quality with low noise and high gain
- Designed to support long-lasting, trouble free deployment
- Durable, unobtrusive cover protects against UV, rain, snow, ice, lightning or chemicals
- Lightning surge protection to EN6100-4-5, 4KA, 8/20 μ s



Customers who bought this Item also bought the following wireless products from GPS Source: L1AW, L1G1A, L1G1P, S14GT, S18GT, RMS216, RMS232

Reliable Time Through Design

GPS Source is the market leader for high quality GPS components. Our reputation has been earned by designing ruggedized equipment for military applications.

The L1G1A-STD antenna works as an active GNSS Timing Reference Antenna for applications covering GPS L1, GLONASS G1 and GALILEO E1.

The L1G1A-STD is the latest in a line of GPS Source antennas used to deliver L1G1 carrier frequency signals to GPS/GNSS synchronization modules and receivers. A professional grade, active GNSS L1/G1/E1 antenna, the L1G1A-STD is built for long lasting, trouble-free deployment.

Designed to support the wireless telecommunications industry, the L1G1A-STD is characterized by low noise and high gain to provide optimum signal quality.

The all-inclusive unit ships with a pole mount for easy installation in outdoor locations. It comes standard with a durable, snow and ice mitigating radome that protects the antenna from harsh environmental surroundings. Lightning protection for the antenna element is also standard.



Table 1-1. Electrical Specifications
 Operating Temperature -54°C to 71°C

Parameter	Conditions	Min	Typ	Max	Units
Frequency Range (Passband)	GPS L1 GLONASS L1 Galileo E1 Ant: Output = 50Ω	1559	1575.42	1610	MHz
Out Impedance			50		Ω
Element Gain	GPS L1 GLONASS L1 Galileo E1 Output = 50Ω, 4 ft G.P.	> +3			dBiC
		>+3			
		> +3			
LNA Gain	GPS L1 GLONASS L1 Galileo E1 Output = 50Ω	> +30			dB
		> +30			
		> +30			
Output SWR	Output = 50Ω			2:1	—
Required DC Input Voltage		3		16	VDC
LNA Current	Output = 50Ω			50	mA
LNA OPIdb Compression			10		dBm
LNA OIP3			15		dBm
Noise Figure				3.0	dB
Polarization	Right Hand Circular				
Axial Ratio at Peak	< 6 dB Max				
Beam Width	75 +/-5° at -3dB from Peak (Free Space)				
Altitude	50,000 ft				
Lightning Protection	EN6100-4-5, 8/20 μs		4		KA

