

GPS-704X



Features

Access to multiple Global Navigation Satellite Systems

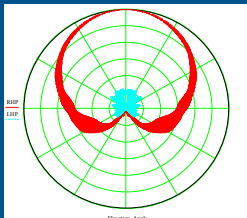
Benefits

Provides a single antenna solution for GPS L1, L2, L5, Galileo L1, E5a & b, E6, GLONASS L1, L2 and L-band

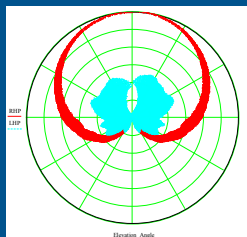
The GPS-704X offers access to multiple Global Navigation Satellite Systems (GNSS) including GPS, Galileo and GLONASS frequencies.

GNSS Wideband Antenna

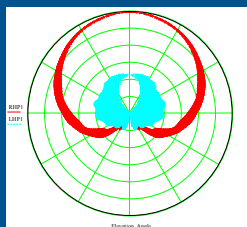
The GPS-704X Galileo passive antenna features improved performance to ensure excellent operation in all GPS, Galileo, and GLONASS frequency bands. The antenna also includes NovAtel's patented Pinwheel™ technology for excellent multipath rejection and phase center stability.



GPS/Galileo L1



GPS L2



GPS L5/Galileo E5a

Performance

3 dB Pass Band	1.15 - 1.65 GHz
LNA Gain	External Required
Gain at Zenith (90°)	
L1	+6.0 dBic (minimum)
L2	+2.5 dBic (minimum)
L5, E5a	+2.0 dBic (minimum)
E6	+3.0 dBic (minimum)
L-band	+6.0 dBic (minimum)
Gain Roll-Off (from Zenith to Horizon)	
L1, L-band	14 dB
L2, E6	11 dB
L5, E5	11 dB
VSWR	≤ 2.0 : 1
Nominal Impedance	50 Ω
Altitude	9,000 m

Physical & Electrical

Size	
Diameter ¹	185 mm
Height	69 mm
Weight	468 g
Connector	TNC female
Environmental	
Temperature	
Operating	-40°C to +85°C
Storage	-55°C to +85°C
Humidity	95% non-condensing
Salt spray	MIL-STD-810F Method 509.4
Ingress Protection	IPX6 and IPX7
Waterproof	IEC 60529 IPX7
Regulatory	CE

¹ Not including tape measure tab. Full diameter with tape measure tab is 195 mm.

External LNA Requirements

Components	Specifications
LNA Noise Figure	1.5 dB
LNA Bandwidth	1100 - 1700 MHz
Group Delay Variation Across LNA Bandwidth	5 ns max
LNA Gain	25 dB min
LNA VSWR	2:1 max
Cable Loss Between Antenna and LNA	1 dB max
Cable Loss Between LNA and Receiver	10 dB max
Connectors	TNC
LNA and Cable Impedance	50 Ω



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