



IRNSS /GPS Antenna L1/L5/S Band Model No. XT-GNSS-IGATBV3-21



Technical Specifications:

For more details contact
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Description

The EL-GNSS-IGATBV3-21 antenna provides low-noise coverage of the entire GNSS frequency range in GPS, GALILEO, BEIDOU and GLONASS SBAS, QZSS & IRNSS L5 & S bands and efficient suppression of out-of-band interferences. The electrical and mechanical interfaces are compatible with those of most currently used narrowband L1/L2 GPS antennas.

Xtragen can customize this product family to meet your specific requirements. Please contact us for more information about customization options.



Mechanical Specifications:

Dimensions : 115 x 115 x 37 mm
Weight : <0.3KG
Connector : SMA (F)
Operating : -40° to 85° C
Temperature

Product Features:

- IRNSS Quad-band (L1/L5/S) application
- Simultaneous multi-band Coverage
- High Gain and Good axial ratio
- Low back lobe level
- Compact Size

	IRNSS L5/GPS L5/E5a/SBAS L5/QZSS L5	GPS L1/B1/E1/S BAS L1/QZSS L1	IRNSS S
Frequency	1176.45 ± 20 MHz	1575.42 ± 40 MHz	2492 ± 20 MHz
Radiation pattern	Hemispherical		
Polarization	RHCP		
VSWR	≤ 2:1		
Impedance	50 Ohm		
Antenna Gain(dBic)			
@90°	4	5.2	5.6
@45°	0.5	1.7	2.1
@15°	-3	-1.4	-2
Beam-width (3dB)	90°	90°	90°
Axial Ratio	1.2 dB	1.5 dB	1.5 dB
Multipath Rejection (RHCP/LHCP) @90°	>20 dB	>20 dB	>20 dB
Front to Back Ratio	>10 dB	>10 dB	>15 dB
LNA Gain	>28 dB	>28 dB	>25 dB
Noise Figure	≤ 2.5 dB	≤ 2.5 dB	≤ 2.8 dB
LNA DC power	5V/ 180 mA		
Out of band Rejection	>40 dB		
Phase Centre	± 2 mm		

Operating Frequency & Return loss:

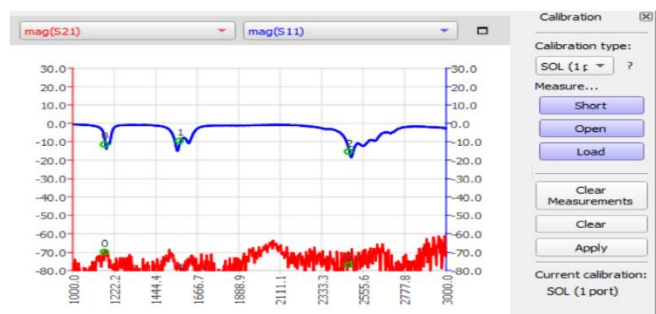


Figure 2: Return loss

Xtragen Technologies Private Limited

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