



Geodetic Antenna for L1/L2/L5/S Bands Model No. XT-GNSS-IGAQB1-22



For more details contact
+91 9500042618

Technical Specifications:

Electrical Specifications:



GPS	GLONASS	Galileo	BeiDou	SBAS	IRNSS	QZSS
L1/L2/ L5	L1/L2 /L3	E1/E5a/E5b	B1/B2	L1/L5	L5/S	L1/L2/L5

Product Features:

- IRNSS GNSS (L1/L2/L5/S) application
- Simultaneous multi-band Coverage
- High Gain and Good axial ratio
- Good multipath rejection using a cavity with high impedance surface layer

- Phase Centre Accuracy : ± 1 mm or better in both azimuth and elevation for all supported bands
- Antenna Gain at Zenith : $\geq 5 \pm 1$ dBic
- Efficiency : $> 70\%$
- Antenna Gain at EOC-75° from zenith : $\geq -2 \pm .5$ dBic in all azimuth phi-cuts taken every 15°
- Propagation delay between L5 & S : ≤ 3 ns
- Polarization : RHCP
- Front to back ratio : ≥ 18 dB
- Axial Ratio : < 3 dB in coverage from zenith
- LNA gain : ≥ 28 dB +/- 2 dB
- Noise Figure : ≤ 2 dB
- Group Delay Ripple : ≤ 5 ns within pass-band
- In band Ripple : $< \pm 2$ dB within pass-band
- Output VSWR : ≤ 2.0 within pass-band
- Multipath mitigation : Antenna backed by a cavity with high impedance surface
- Input Voltage : 5V
- Current : < 100 mA
- Out of band Rejection : > 40 dB
- Impedance : 50 ohm

Mechanical Specifications:

- Dimensions : Dia 15.2 cm x Height 7.5 cm
- Connector : TNC (F)
- Operating Temperature : -20° to 70° C
- Mounting : 5/8" – Female
- Humidity : 100% humidity proof

Xtragen Technologies Private Limited

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