Data Sheet

Satraka™
CONNECT THE UNCONNECTED

KU/KA BAND

SATCOM TRACKING-ANTENNA

OVERVIEW

With several innovations in the design, Satraka's Jupiter line of fixed-site tracking antennas sets a new industry standard. Designed for both performance and cost-effectiveness, the advanced Jupiter antenna features two tracking beams from a single structure: one for tracking LEO or MEO satellites and another for seamless handover. This dual-beam capability eliminates the need for two separate antennas, reducing both Opex and Capex. Additionally, the Jupiter antenna supports operations in both Ku and Ka frequency bands for LEO, MEO, and GEO satellites when equipped with the appropriate radio and modem. Its simplified steering mechanism enhances reliability and robustness, ensuring high pointing accuracy. Satraka's Jupiter antenna redefines the design and engineering of high-performance satellite tracking systems.

KEY FEATURES

- Innovative, patent-pending technology
- x1 antenna, x2 beams: tracking & handing-over seamlessly from one structure
- Simplified steering mechanism: high reliability
- High antenna efficiency: > 55%
- Dual band operational: Ku and/or Ka bands
- Large beam steering range: +/- 75 °
- Consistent performance in any steering angle
- Low cost and Low power to operate

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PRODUCT IMAGES

SPECIFICATIONS

Parameters	Ku band	Ka band
Frequency (GHz)	Rx: 10.7 - 12.75 Tx: 13.75 - 14.0	Rx: 17.7 – 20.2 Tx: 27.5 – 30.0
Polarization	LHCP/RHCP	
Gain (dBi)	34.7 @ 11.7 GHz 36.3 @ 14.0 GHz	39.3 @ 19.7 GHz 42.8 @ 29.5 GHz
Efficiency (%)	55%	
G/T[1] (dB/k)	12.4	16.8
EIRP[2] (dBW)	43.3	49.8
Beam steering range (°)	Tracking: +/-75 Orbit: +/-50	
Operating temperature (°C)	-40 to +70	
Weight (Kg)	30	
Dimension (mm)	1500 x 780 x 830	
Power[3] (Watt)	< 50	

[1] LNB NF, 1.5 dB

[2] BUC transmit power, 5W

[3] Operational power for steering system

TN & NTN Tracking Antennas - Connect the Unconnected & Serve the Unserved