Data Sheet

Satraka
CONNECT THE UNCONNECTED

KU/KA BAND

SATCOM TRACKING-ANTENNA

OVERVIEW

Satraka's Atlas range AD200FKuKa antennas are engineered for efficiency, performance, cost-effectiveness and low SWaP (Size, Weight, and Power). These advanced antennas are ideal for mobility platforms, including coaches, buses, HGVs, boats, UAVs and USVs, enabling broadband internet connectivity through non-terrestrial networks such as LEO, MEO and GEO satellites. The AD200FKuKa can operate as standalone unit or in combination with Satraka's Terra range antennas, providing seamless and reliable internet connections by integrating terrestrial 4G/5G networks (TN) with non-terrestrial satellite-based networks (NTN).

Operating in Ku and Ka frequency bands, the AD200FKuKa features an impressive ±75° antenna beam steering capability with no degradation in performance.

KEY FEATURES

- Innovative, patent pending technology
- Wide bandwidth, supporting both Ku and Ka band in a single antenna
- High gain and efficiency
- Extensive beam steering range
- Consistent performance at all beam steering angle
- Low SWaP (size, weight and power)

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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)	25.3 @ 12.7 GHz 26.5 @ 14.5 GHz	29.2 @ 20.0 GHz 32.7 @ 30.0 GHz
Efficiency (%)	48%	
G/T[1] (dB/k)	4.1	7.9
EIRP[2] (dBW)	33.5	39.7
Beam steering range (°)	Azimuth: 360 Orbit: +/-75	
Operating temperature (°C)	-40 to +70	
Weight (Kg)	5	
Dimension (mm)	Dia. 250 mm, height 260 mm	
Power[3] (Watt)	< 30	

[1] LNB NF, 1.0 dB

[2] BUC transmit power, 5W

[3] Operational power for Steering system

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