



2-way low-profile in-motion satellite antenna with enlarged Tx panels

Physical	Outdoor unit size	115 L x 90 W x 18 H cm (45 x 35 x 7 in)
	Outdoor unit weight	32 kg (70.5 lb)
	Indoor unit size	18 L x 23 W x 7 H cm (7 x 9 x 3 in)
	Indoor unit weight	1 kg (2 lb)
(The radome is included in all measurements and dimensions)		
Electrical	Frequency band	High band 11.7 - 12.75 GHz Low band 10.95 - 11.7 GHz (Factory option, specify upon order)
	Receive	14.0 - 14.5 GHz
	Transmit	Linear (auto polarization control)
	Polarization	
	Gain	
	Receive	28 dBi
	Transmit	30 dBi
	Antenna G/T	7.5 dB/K at 30° elevation or 8.5 dB/K at 45° elevation
	Uplink EIRP	44.7 dBW with 40W external BUC
	Cross polarization	> 25 dB
IF input/output	950 - 2150 MHz	
Power supply	10 - 30 VDC (ant.)	
Continuous power consumption	55 W (ant.)	
Antenna Performance	Elevation look angle range	Automatically adjusted, 23° - 80°
	Azimuth angle range	Automatically adjusted, 360° continuous
	Tracking rate	60°/sec
	Polarization angle range	Automatically adjusted, -180° to +180°
	Initial satellite acquisition & lock	< 60 sec, fully automated with integrated GPS
	Satellite re-acquisition	< 1 sec, modem dependent
	Azimuth tracking accuracy	0.7° @ 60°/s, 360°/s ²
Elevation tracking accuracy	1.0° @ 45°/s, 180°/s ²	
Electrical Interfaces	Tx, RX and control	N, TNC, 50Ω
Environmental	Temperature range	-25° to +70°C (-13° to +130°F)
	Relative humidity	10 - 100% condensing
	Ground speed	Up to 350 Km/h (220 mi/h)
	Flammability	UL 94, V0

Specifications subject to change without notice

About RAS

RaySat Antenna Systems (RAS) specializes in the development, marketing, sales and support of in-motion, low-profile, 2-way antenna systems. RAS's low-profile, in-motion, 2-way antennas are specifically designed for the needs of Satcom-On-The-Move (SOTM), mobile emergency communications, home land security (HLS), search & rescue, governmental organizations, DSNG, private security, asset tracking, research & exploratory and general mobile satellite data communications. Staffed by over 150 professionals, spanning three continents, RAS's international management, sales and support staff are located in Rehovot, Israel. Additional facilities, including R&D and sales offices are located in US, Europe and Asia.