



### Compact 2-way low-profile in-motion satellite antenna with an integrated extremely thin 20W BUC

❖ <b>Physical</b>	Outdoor unit size	60 L x 55 W x 23 H cm (24 x 22 x 9 in)	
	Outdoor unit weight	13 kg (29 lb)	
	Indoor unit	18 L x 23 W x 7 H cm, 1 kg (7 x 9 x 3 in, 2.2 lb) (The radome is included in all measurements and dimensions)	
❖ <b>Electrical</b>	Frequency band		
		Receive	10.9 – 12.75 GHz
		Transmit	14.0 - 14.5 GHz
	Polarization		Dual switched linear (auto polarization control)
	Gain		
		Receive	25 dBi
		Transmit	27 dBi
	Antenna G/T		5 dB/°K
	Uplink EIRP		40 dBW
	FCC Compliance		Operationally licensed
Cross polarization		> 30dB	
IF input/output		950 - 1950 MHz	
Power supply		10 - 30 VDC (ant), 48 VDC or 10 - 40 VDC (BUC)	
Power consumption		20W (ant.) + 200W (BUC)	
❖ <b>Antenna Performance</b>	Elevation look angle range		Automatically adjusted, 15° - 80°
	Azimuth angle range		Automatically adjusted, 360° continuous
	Tracking rate		30°/second
	Polarization angle range		Automatically adjusted, -180° to +180°
	Initial satellite acquisition		< 60 sec, fully automated with integrated GPS
	Satellite re-acquisition		< 1 sec, modem dependent
	Azimuth tracking accuracy		0.7° @ 30°/s, 180°/s <sup>2</sup>
Elevation tracking accuracy		2.4° @ 30°/s, 180°/s <sup>2</sup>	
❖ <b>Electrical Interfaces</b>	Tx, RX and Control		TNC, 50Ω
❖ <b>Environmental</b>	Temperature range		-25° to +55°C (-13° to +130°F)
	Relative humidity		10 - 100% condensing
	Ground speed		Up to 175 Km/h (105 mi/h)

Specifications subject to change without notice

### About RAS

RaySat Antenna Systems (RAS), LLC is part of the RaySat™ family of companies. With RaySat being a leading and award-winning developer, manufacturer and supplier of in-motion low-profile, 1-way phased-array satellite antennas, 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. RAS offers consulting and R&D services to clients requiring custom technology solutions. Staffed by over 150 professionals, spanning three continents, RAS's management, sales and support staff are headquartered in Vienna, VA. Additional facilities, including R&D and sales offices are located in Europe and Asia. RaySat, Inc. was established in 1997 and RAS was created in 2006.