

RECON VSAT 98cm



FlyAway 98 cm Tri-Band Configurable Segmented Carbon Fiber Antenna VSAT

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The Comtech RECON Family of Systems (FoS) 98cm terminal offers a man-packable, multiband, multi-waveform solution for communications capable of being transported and set up by a single person. The RECON supports operations with legacy SATCOM systems, DoD Enterprise SATCOM Gateways, and is designed to comply with future program requirements, including PTW.

Key Features:

- Full Cybersecurity Compliance
- Capable of utilizing the Comtech 1050TS, iDirect 950mp, iDirect 9050 OM, SLM-5650C and Viasat CBM-400 modems
- User-friendly touchscreen
- Manual point and auto acquire versions available
- Less than 15 minute setup and in-network
- Assured PNT support
- Open/Modular Baseband Interface supporting IPv4/IPv6

Available Options:

- Motorized computer-assisted pointing & acquisition upgrade
- Beacon receiver
- Wind anchoring options: ground stakes, sand bags
- Optional soft sided ballistic nylon cases
- Spare parts kit, training, and field support
- Assured Position Navigation Pointing Capability



Technical Specifications:

Reflector Construction	Carbon fiber / aluminum
Azimuth Travel	+/-95°
Elevation Travel	+5° to 95°
Polarization (Ku) Travel	360° continuous
Set-up time	Less than 5 minutes
Assembled Weight	<45 lbs. (with Ku-Band Precision feed, less BUC)
Case Integration	Rugged Case Integration: 2 Rugged Cases <48lbs ea, <62 linear inches ea Transport Case Integration: 2 Cases <48lbs ea, <45 linear inches

Environmental:

Operating Temperature	-32 °F to 140 °F (-36 °C to 60 °C)
Storage Temperature	-50 °F to 159 °F (-46 °C to 70 °C)
Wind Speed	Survival with anchors 45 mph
	Operational without anchors 25 mph
	Operational with anchors 30 mph sustained / 45 mph gusting
Pointing Loss in Wind	0.4 dB typical, 0.8 dB max (Ku-band Receive, Operational winds)

RF/Electrical:

Feed Type	Std 2-Port Ku-Band		2-Port Ka-Band		2-Port X-Band	
	Receive	Transmit	Receive	Transmit	Receive	Transmit
RF Parameter						
Frequency Range (GHz)	10.95–12.75	13.75–14.50	19.2–21.2	29.0–31.0	7.25–7.75	7.90–8.40
Polarization Configuration	Linear Orthogonal Standard Co-Pol		Circular or Linear		Circular or Linear	
Gain (mid-band) (dBi)	39.8	41.4	44.1	47.3	35.9	36.6
Beamwidth (-3 dB)	1.8°	1.5°	1.0°	0.75°	2.9°	2.6°
G/T, Midband, Clear Horizon @ 20° Elevation	19.6 dB/°K with 50° LNB		20.7 dB/°K with 100° LNB		15.8 dB/°K with 55° LNB	
Antenna Noise Temperature @ 20° El, midband	52° K		115° K		48° K (including optional filter)	
Radiation Pattern Compliance	FCC 25.209, ITU-R S.580-6 IESS 208		FCC 25.209, MIL-STD-188-164C		MIL-STD-188-164C	
EIRP	57.4		63.3		52.6	
Feed Port Isolation – Tx to Rx (dB)	35	35.8 (incl. filter)	80	80 (incl. filter)	115 (incl. filter)	115 (incl. filter)

About Comtech

Comtech Technologies Corp. (Nasdaq: CMTL) is a leading global provider of next-generation 911 emergency systems and secure wireless communication technologies to commercial and government customers around the world. Comtech designs produces and markets advanced and secure wireless solutions.

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