



RECON VSAT HEAVY FlyAway 2.4m Multi-band Terminal

**Auto-track/Manual FlyAway 2.4m Segmented
Carbon Fiber Antenna Tri-Band Configurable-VSAT
by Comtech MCT / AVL Technologies**

RECON VSAT

The Comtech RECON VSAT provides a modernized COTS solution for data exchange in support of Multi-Domain Operations (MDO). It can be set up by one person in 10 minutes and operating in-network in under 20 minutes.

Key Features:

- Lightweight, compact and portable in four cases; total weight is 240 lbs. without cases
- Robust 2.4m segmented 9-piece carbon fiber reflector and tripod base for operations in harsh conditions
- Assembles in 10 minutes

Standard Rx/Tx Feed:

- 2-Port Ku-Band precision

Optional Rx/Tx Feeds:

- 2-Port Ka-Band commercial / MIL (WGS) including GX
- 2-Port X-Band MIL (WGS)

Polarization Adjustments:

- Manual rotation

Case Integration:

- Reflector 28" X 28" X 24", 127 lbs.
- Tripod 54" X 29" X 16", 106 lbs.
- Positioner 33" X 25" X 24", 87 lbs.
- Feed Boom/Ku Feed 54" X 29" X 16", 100 lbs

Specifications:

MECHANICAL	
Reflector Construction	Carbon fiber / aluminum
Travel	
Azimuth	+/-95°
Elevation	+5° to 95°
Polarization (Ku)	360° continuous
Set-up time	Less than 5 minutes
Assembled Weight	<240 lbs. (with Ku-Band Precision feed, less BUC)

Terminal Features:

- Modem agnostic design with optional switchable L-Band external interface
- User-friendly touchscreen, manual point assist reduces operator burden
- Manual point and auto acquire versions available
- <15 minute setup and in-network by general purpose user
- Assured PNT support
- Open/Modular Baseband Interface supporting IPv4/IPv6
 - Standard Configuration 8 Ethernet ports
 - Optional Configurations 10-64+ Ethernet Ports

Modems Supported:

Make	Model	Embedded in ODU	External Mudbox
Comtech	1050TS	Yes	Yes
Comtech	SLM-5650	Yes	Yes
iDirect	950mp	Yes	Yes
Viasat	CBM-400	Yes	Yes

ENVIRONMENTAL	
Wind Speed — Survival (anchored)	80 mph
Wind Speed — Operational	
Without anchoring	20 mph
With anchoring	30 mph gusting to 45 mph
Pointing Loss in Wind	
Ku-band Receive, Operational winds	0.4 dB typical, 0.8 dB max
Temperature	
Operational	-32°F to +140°F
Survival	-50°F to +159°F
Vibration	Vibration IAW MIL-STD-810G with Change 1
Humidity	Humidity IAW MIL-STD-810G with Change 1 (packed for transit and deployed configuration)
Salt Fog	Salt Fog IAW MIL-STD-810G with Change 1 (packed for transit and deployed configuration)
Sand and Dust	Sand and Dust IAW MIL-STD-810G with Change 1 (packed for transit and deployed configuration)
Shock	Shock IAW MIL-STD-810G with Change 1 (packed for transit)
Rain	Rain IAW MIL-STD-810G with Change 1 (packed for transit and deployed configuration)
Solar Radiation	Solar Radiation IAW MIL-STD-810G with Change 1 (deployed configuration)
Low Pressure (Altitude)	Low Pressure (Altitude) IAW MIL-STD-810G with Change 1, transit configuration

RF/ELECTRICAL						
Feed Type	Std. 2-Port Ku-Band DBS bands available upon request		2-Port Ka-Band		2-Port X-Band	
RF Parameter	Receive	Transmit	Receive	Transmit	Receive	Transmit
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 Optional Co-Pol		Circular or Linear		RHCP or LHCP	
Gain (mid-band) (dBi)	47.3	48.8	51	54.5	43.3*	44.1*
G/T, Midband, Clear Horizon	27 dB/°K with 50° LNB		25 dB/°K with 100° LNB		22.7 dB/°K with 55° LNB	
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 DbW, linear	64		66		58.1	
BFeed Port Isolation — Tx to Rx (dB)	35	35 80 (incl. filter)	80	80 (incl. filter)	115 (incl. filter)	115 (incl. filter)

* Not including optional filters

Available Options, Upgrades & Services

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

About Comtech

Comtech Telecommunications Corp. (Nasdaq: CMTL) designs, develops, produces and markets innovative products, systems and services for advanced communications solutions. The Company sells products to a diverse customer base in the global commercial and government communications markets. For more information visit www.comtechtel.com.

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