

# Lite Sat 1.3 VSAT Terminal

The lightest Auto Acquire Carbon Fiber VSAT terminals in the world.

Designed for use in the most austere conditions, the **Lite Sat 1.3A VSAT Terminal** is the lightest weight Auto Acquire Carbon Fiber VSAT Terminal in the world. It is available with an optional .96M Reflector, the **Lite Sat .96A**

Proudly made in the USA, the **Lite Sat 1.3A VSAT Terminal** features an axi-symmetric reflector, an integrated iDirect Modem, and top performing Mission Microwave SSPA's to deliver the superior performance required for mission critical communications.

Our world-class Lite Coms engineers have designed and built over 8,000 VSAT terminals for the United States military and coalition partners, and the **1.3 VSAT Terminal** is our most popular and top performing terminal to date.

Our customized transport packaging is smaller than most sub one-meter terminals, and the lightest weight (per case) of any Auto Acquire Terminal on the market.



AN/TSC-248

# Product Specifications\*

<b>Ideal For:</b>	
Military World Wide Deployment	Counterterrorism
Executive Travel Teams	SNG
Border Security	EOD Teams
Law Enforcement	Special Operations Teams
<b>Standard Features:</b>	
Ku Band Kit	110-240V 50/60Hz
iDirect 950 Integrated TMA	3 Case Packout
<b>Optional Features Include:</b>	
Ka Band Kit	High Power SSPA (Ku and Ka)
X Band Kit	Mil-Std-810 Certification
Lite-Link Web Based GUI	ARSTRAT Certification
CBM 400 Modem Option	2 Case Packout
Secure Base Band Kit	Appendix 30B
Global Airtime Solution On-Demand	Custom Packout

## Lite Sat 1.3 Single, Dual or Tri Band VSAT Terminal

<b>Mechanical:</b>				
	<b>#</b>	<b>Weight</b>	<b>Ext. Dimensions</b>	<b>Contents</b>
Cases	1	≤ 58 lbs	31.5" x 20.5" x 15.7"	Reflector/TMA
	2	≤ 67 lbs	31.5" x 20.5" x 15.7"	Positioner
	3	≤ 65 lbs	31.5" x 20.5" x 15.7"	RF/band kit
Reflector	12 Piece Carbon Fiber Axi-symmetric			
Elevation	+5 to 95 deg			
Azimuth:	+/-95 deg			

<b>RF Performance</b>					
	<b>Ku</b>	<b>Ka</b>	<b>Ka-WB</b>	<b>X</b>	<b>Appx. 30B</b>
Transmit (GHz)	13.75-14.5	30-31	29-31	7.9-8.4	12.75-13.25
Receive (GHz)	10.7-12.75	20.2-21.2	19.2-21.2	7.25-7.75	10.7-10.95
EIRP (dBW) Nom. Linear <sup>2</sup>	58.5	63	62	56	58
G/T (dB/K) Nominal	20.5	23	23	16.3	20
Higher EIRP available					

<b>Environmental:</b>	
Temp.	-32 to + 60C
Storage	-46 to +71C
Wind Load	30 mph gusting to 45 mph with anchors

<sup>1</sup> Linear power as defined by MIL-STD-188-164