

# TRANSPORTABLE 2.4m X/Ka ANTENNA SYSTEM

TEXTRON Systems

2.4M Quad-Band Antenna  
for Humvee or Trailer

featuring



Simultaneous  
X/Ka-Band Feed

- Precision 2.4m composite reflector
- Patented Roto-Lok® positioner Az/EI drive system
- Simultaneous X/Ka in a single feed
- Band independent selectable RHCP or LHCP TX
- Dual RH/LH RX channels available in both bands,
- Integrates field-proven Ka-band HPA/BUC and redundant X-band HPA products
- Deploy in less than 15 minutes
- Meets MIL-STD-188-164A requirements
- Transit case flyaway configuration available



## WGS Ready – TODAY!

### AvL MILSATCOM Antenna with Overwatch X/Ka Feed

The transportable X/Ka antenna is built to provide maximum operational flexibility to the tactical user. A field-proven, integrated antenna / positioner / feed / electronics hardware makes this MILSATCOM antenna true quick-deploy with operational status achieved in less than 15 minutes. The need to manually reconfigure the antenna to change bands or polarization is eliminated through the use of the simultaneous dual-band X/Ka feed.

**AvL TECHNOLOGIES**  
designs for ultimate performance

**OVERWATCH**

# SIMULTANEOUS X/KA FOR MILSATCOM APPLICATIONS

## Specifications

	X-Band	Ka-Band
Receive	7.25 – 7.75 GHz	20.2 – 21.2 GHz
Transmit	7.90 – 8.40 GHz	30.0 – 31.0 GHz
Receive Gain	43.3 dBi	52.1 dBi
Transmit Gain	44.1 dBi	55.0 dBi
G/T (LNA Temp)	22 dB/K (45K)	27.5 dB/K (120K)
EIRP (HPA Power)	64 dBw (100W)	74 dBw(50W)
Polarization		
TX (remotely selectable)	LHCP or RHCP	LHCP or RHCP
RX	LHCP and RHCP	LHCP and RHCP
Beamwidth (-10dB)	2.1° / 1.9° (RX/TX)	0.8° / 0.5° (RX/TX)
Axial Ratio	<1.0 dB	<0.75 dB
Wind	Operational: 45 mph. gusts to 60 mph Survival: 70 mph Stowed: 100 mph	
TX Pointing Loss	0.1dB (20 mph) 0.6 dB (30 mph gust)	
Controller	Drive to calculated position based on GPS, flux gate compass, and satellite peak track	
Azimuth	+/- 200°	
Elevation	0 to 90°	
Antenna Speed	1° sec	
Weight	640 lbs (240 Kg)	
Stowed Dimensions	138" x 96" x 23" inches (350cm x 244cm x 58cm)	
Temperature	-29 to +52 C (operational) -40 to +60 C (survival)	
Input Power	110/240 VAC, 1 phase 50/60 Hz, 10/5 A peak, 1 A continuous	
Controller Options	TracStar or RCI, fully automatic satellite acquisition and peaking	

## Tomorrow's Communications Today!

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