

## ACS-MST UltraLight-Ka Satellite Terminal

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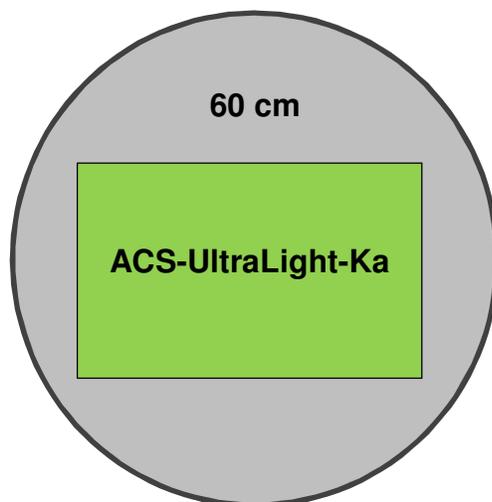
- Ultra Light Ka-Band Satellite Terminal – *Less Than 20 lbs including 5 W BUC, LNB and Tripod*
- Compact planar array - 16.8”(42 cm) x 11.5”(29 cm)
- Tx data rate up to 1.5 Mbps, Rx data rate up to 45 Mbps
- Set up time less than 10 minutes including satellite acquisition
- Eliminates the need for signal spreading to meet ASI requirements reducing Bandwidth Operating Expenses
- Azimuth Beamwidth equivalent to 60 cm fixed reflector
- Sidelobes equivalent to 1 m fixed reflector
- Gain equivalent to 45 cm fixed reflector



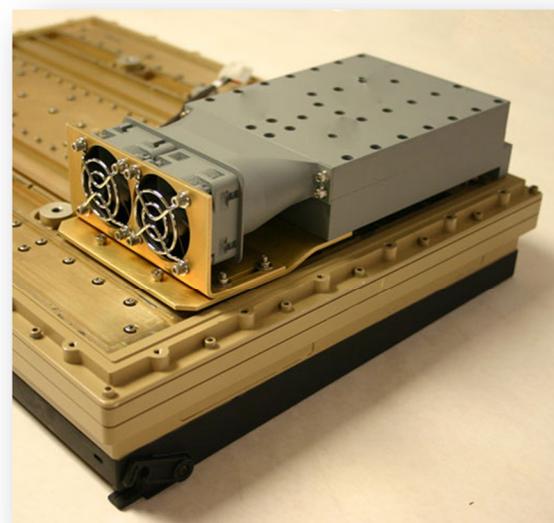
### Overview

The ACS-UltraLight-Ka is a light weight (< 20 lbs) satellite terminal intended for use with the Wideband Global SATCOM system (WGS), Global Xpress and XTAR services. The terminal utilizes planar array Continuous Transverse Stub (CTS) technology which minimizes Adjacent Satellite Interference (ASI). Unlike fixed aperture terminals having symmetrical sidelobes the CTS planar array produce discreet sidelobe axes that can be rotated off of the Geo-Plane thus avoiding neighboring satellites and greatly improving ASI performance.

Included with the terminal is an IATA airline compliant transportation case. A range of options are also available including; different BUC sizes, modems, Computer Assisted Pointing (CAP) controller, MISB compliant digital video encoding equipment, power interface converters, rucksack and mounting configurations. Please contact Agile Milcoms for optional configurations.



*Relative Size Comparison to 60 cm Dish*



*Integrated BUC*



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### Performance Specifications

Antenna Type	CTS Planar Array
BUC	5 W – Other sizes available
LNB	Military or Commercial
	Bands, 24 Vdc power supply
Polarization	RHCP and LHCP
Antenna Elevation Range	0 to 90 degrees
Rx Band	18.7 -21.2 GHz Full & Military Band
Rx G/T	2.2° Az x 3.2° El
Tx Band	29-31 GHz
	Commercial and Military Band
Tx Gain	38.5 dB
Tx EIRP (5W)	45.5 dBW
Tx Beamwidth	1.5° Az x 2.0° El
Tx/Rx Isolation	80 dB
Regulatory Compliance	FCC 25.222, ITU 728-R CFR47, 164A

### Physical Specifications

Setup Time	< 10 min including satellite acquisition
Operating Temp	-40C to +60C
Operating Humidity	95 5% RH, MIL-STD-180F
Operational Wind Speed	50km/hr
Storage Temperature	-40 to 71 degrees C
Ingress Protection	IP65
Antenna Size	16.8" x 11.5" x 3.8"
(with filter and LNB)	(43 x 29 x 10 cm)
Case Size	21" x 16" x 8"
(includes roller wheels and telescoping handle)	(53 x 41 x 20 cm)
Terminal Weight	Less than 20 lbs (9.0 kg)

\* All specifications subject to change without notice