Features and Benefits

- Ease of Set Up: Set up in under 20 minutes with no special tools
- Extreme Portability: 50% less volume and weight than portable rigid satellite antennas
- Back-packable airline carry-on design reduces logistics overheads
- Efficient Design: Narrower beam- width (due to full 1.2m dish) results in lower noise floor, better G/T compared to sub-meter, “disadvantaged” dishes
- Reliability in Extreme Environments: Greater stability in high winds, durable in extreme temperatures MIL-STD-810G tested

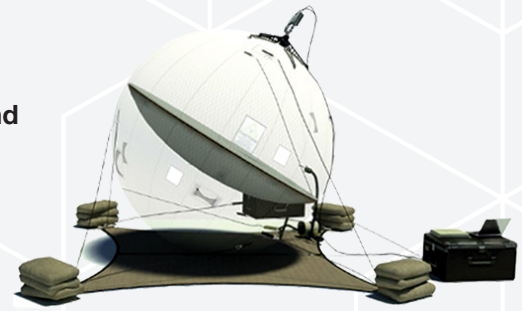
GATR 1.2m Inflatable Satellite Antenna

GATR 1.2m ISA High-bandwidth, Backpackable Antenna

The GATR Inflatable Satellite Antenna has revolutionized the portable SATCOM industry with its patented, inflatable communications terminal.

An inflatable radome and flexible parabolic reflector mounted at the equator, enables deployment of a single Ku-band 1.2-meter satellite terminal in one airline checkable case weighing less than 75 lbs. This reduces pack-out weight and volume by up to 50% compared to deployable rigid antennas of similar size, making it ideal for first-in deployments, remote applications and contingency scenarios where transportation and space are limited.

Available in X, Ku- and Ka-band
Type Designator: AN/TSC-232



GATR 1.2m Inflatable Satellite Antenna

Specifications

RF Frequency	X-band	Ku-Band	Ka-band
Operation			
Set Up Time	< 20 Minutes, 1 Operator		
Tri-Band Case Configuration	Antenna Case = 70 lbs Tri-Band Case (Ku/X/Ka)* = 65 lbs *3 separate feeds/amps in one case		
Single Case Ku Terminal		1 case < 100 lbs 1.2m Ku-Band w-GATR 950 Modem	
Az/El/Pol	Manual Point & Polarization		
Elevation	5 to 90 Deg		
Azimuth	+/- 10 deg from Stage Center		
Antenna Performance			
Optics	Prime focus		
Polarization	Circular	Linear	Circular
G/T (dBi/K)	15.1 @15° Elevation	20.7 @20° Elevation	21.6 @15° Elevation
EIRP (dBW) - Linear	48	54.9	56.7
Amplifier TX Power	25 W	25 W	16 W
Satellite Compliance	FCC Licensed, ARSTRAT WGS Certified (X & Ka) Type Certifications: Intelsat FlexGround, Inmarsat Global Express Cat IV, Skynet, Optus, SES, XTAR		
Interfaces			
Modem	Interoperable with L-Band SATCOM modems GATR 950 iDirect modem for FLEXGround Terminal		
Interface	L-Band: 950 - 2000 MHZ N-Type (50 Ohm)		
Reference	10 MHz Reference to RF Electronics (LNB & Amplifier) Meets: MIL-STD-164B (ARSTRAT Compliant)		
Environmental			
Temperature	Operational: -32 to +50 Deg C Storage: -33 to +60 Deg C		
Wind Load	Operational: 40 mph (64 kph) Survivable: 60 mph (97 kph)		
Other	Tested to MIL-STD-810G shock, vibration, altitude, blowing rain, blowing sand, ice load, salt fog and MIL-STD-461F electromagnetic interference		
Power			
Input Power	VAC: 100 - 277 VDC: 18 - 36		
Power Consumption	< 250 W		
Battery Type & Operation	Two BB-2590 (Li-Ion) or Two BB-390 (NiMH) UPS houses and charges batteries 4 hour on air (Rx/Tx) operation		

Back-packable design enables low-profile transport

1.2m + Ku/Ka/X
2 cases < 200 lbs

1.2m Ku with iDirect Modem
FLEXground Terminal
1 case < 100 lbs

CHANGING THE SHAPE OF SATCOM

Cubic is revolutionizing the ultra-portable SATCOM industry with the GATR's inflatable satellite antenna. Compared to other deployable rigid dishes of comparable size, GATR's unique shape and designs enable extreme portability, lower cost of ownership, reliability in extreme environments and ease of set up.

Cubic Defense
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