



Features and Benefits

- **Extreme Portability-** A high-capacity antenna that is 80+% less volume and weight than comparable rigid antennas (4 cases, less than 400 pounds total), enabling rapid insertion of hubs
- **Lower Cost of Ownership-** Drastically reduces shipping expense in restoration of services situations
- **Reliability in Extreme Environments-** Greater stability in high winds (40+ mph) and durable in extreme environments
- **Ease of Set Up-** Sets up in under 60 minutes with no special tools



GATR 4.0m Satellite Antenna

CUBIC | GATR has revolutionized the portable SATCOM industry with its patented, inflatable communications hub.

The GATR's unique antenna design, an inflatable radome and flexible parabolic reflector mounted at the equator, enables deployment of a 4-meter class Ku-band satellite terminal in as few as four cases and under 400 lbs (180 kg) total. This reduces pack-out weight and volume by over 80% compared to deployable rigid hubs, making it ideal for rapid insertion, remote applications and contingency scenarios for Military, Intelligence and Homeland Security organizations.

Type Designator: AN/TSC-228



Specifications

Operation	X-Band	Ku-Band	Ka-Band	C-Band
Set Up Time	< 60 Minutes, 2 Operators			
Antenna Cases Size/Weight	3 Cases < 300 lbs			
Electronics Case Size/Weight	<i>Standard</i>	<i>Standard</i>	<i>Standard</i>	<i>Standard</i>
	1 Case < 100 lbs	1 Case < 100 lbs	1 Case < 100 lbs	1 Case < 100 lbs
Az/EI/Pol	Manual Point & Polarization			
Elevation	5 to 90 Deg			
Azimuth	+/- 10 deg from Stage Center			
Antenna Performance				
Optics	Prime focus			
Polarization	Circular	Linear	Circular	Linear or Circular
G/T (dBi/K)	26.4 @15° Elevation	30 @20° Elevation	34.98 @15° Elevation	@20° Elevation
	<i>Standard</i> (100W Wavestream) Single Carrier	<i>Standard</i> (200W MW Titan)	<i>Standard</i> (100W MW Javelin)	80W (Terrasat)
EIRP (dBW) - Linear	64.8	73.6	106.3	95
Satellite Compliance	FCC Licensed, ARSTRAT WGS Certified X-band (Ka Pending) Type Certifications: Skynet, Optus, SES, XTAR			
Interfaces				
Modem	Interoperable with L-Band SATCOM modems			
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 Survivable: 60 mph			
Other	Designed to MIL-STD-810G shock, vibration, altitude, blowing rain, blowing sand, ice load, salt fog, humidity and MIL-STD-461F electromagnetic interference			
Power				
Input Power	VAC: 100 - 277 VDC: 18 - 36			
Power Consumption	< 1000 W			
Battery Type & Operation	Two BB-2590 (Li-Ion) or Two BB-390 (NiMH) UPS houses and charges Batteries 4 hours Rx Only Operation			

GATR 4.0m Antenna System Details

GATR's unique inflatable design enables transport of GATR's 4m Ku-band terminal in 4 cases, weighing less than 400 lbs total, making it The Most Portable 4-meter Satellite Antenna in the World.



CHANGING THE SHAPE OF SATCOM

GATR is revolutionizing the ultra-portable SATCOM industry with its inflatable communications terminal. 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.