



GATR 1.2m SATELLITE ANTENNA

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

The GATR's unique antenna design, 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. (34 kg). 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.

Compared to other deployable rigid dishes of comparable size, the GATR's unique shape and design enable...

Extreme Portability

50% less volume and weight than portable rigid satellite antennas (antenna & modem components weigh as few as 48 pounds), backpackable/carry-on design enables low-profile transport

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

Ease of Set Up

Set up in under 20 minutes with no special tools

Available in Ku- and X-band

Type Designator: AN/TSC-232



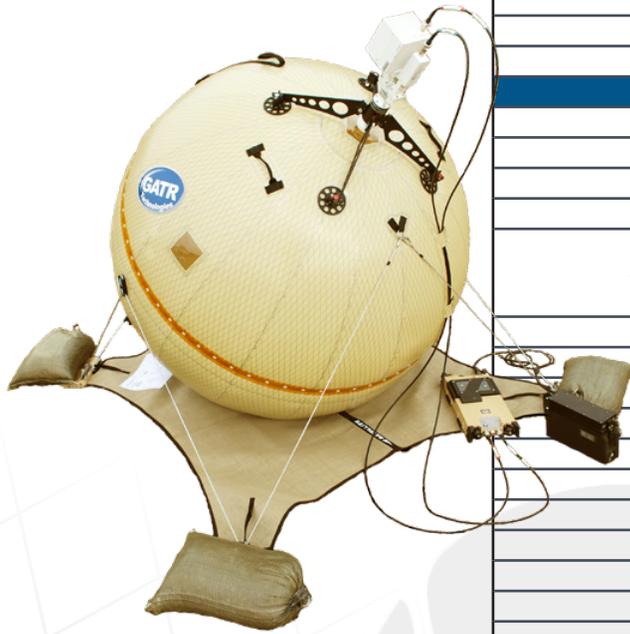
CUBIC™



www.gatr.com | 330 Bob Heath Drive | Huntsville, AL 35806 | USA | P: +1 256.382.1334

Visit www.GATR.com, or contact us for demonstration.

GATR 1.2m Antenna System Specifications



Specification	Ku-band	X-band
Set Up Time	Under 20 minutes on satellite	Under 20 minutes on satellite
Size/Weight		
Standard Case (31x20x12 in.) (79x51x30.5 cm)	75 lbs. (34 kg) with modem	76 lbs. (34.5 kg) with modem
Backpack Solution	58 lbs. (26.3 kg) with modem	59 lbs. (26.8 kg) with modem
Airline Carry-on	57 lbs. (25.9 kg) with modem	59 lbs.(26.8 kg) with modem
Weights indicate baseline system without spectrum analyzer or UPS.		
Antenna and RF System		
Optics	Prime focus	Prime focus
Reflector Construction	Flexible parabolic fabric	Flexible parabolic fabric
Az/EI/Pol	Manual point and align	Manual point and align
Modem	Works with all standard SATCOM modems	Works with all standard SATCOM modems
Satellite Location Controller	iDirect™ SNR tuning. Satellite acquisition, peaking, and cross pol adjustment using GPS or compass, and level inputs	iDirect™ SNR tuning. Satellite acquisition, peaking, and cross pol adjustment using GPS or compass, and level inputs
Interface	CAT-5 cable for IP applications	CAT-5 cable for IP applications
Elevation	5 to 90 deg	5 to 90 deg
Azimuth	+/-10 deg of hold-downs	+/-10 deg of hold-downs
Polarization	Linear	Circular
Transmit Gain (Mid-band)	43.0 dBi	37.0 dBi
Receive Gain (Mid-band)	41.5 dBi	36.1 dBi
Cross-Pol Isolation	>30 dB	>30 dB
G/T	20.7 dB/K @ 20 deg elevation	14.2 dB/K @ 15 deg elevation
EIRP	53.8 dBW with 12W BUC	49.8 dBW with 25W BUC
LNB	Gain = 62 dB, NF = 0.7 dB	Gain = 60 dB, NF = 0.7 dB
TX Radiation Compliance	FCC licensed	ARSTRAT certified
Satellite System Compliance	Intelsat	Skynet and XTAR
Environmental		
Temperature	Operational: -32 to +55°C Storage: -40 to +60°C	Operational: -32 to +55°C Storage: -40 to +60°C
Wind Load	Operational: 40 mph (64 kph) Survivable: 60 mph (97 kph) with anchor spikes	Operational: 40 mph (64 kph) Survivable: 60 mph (97 kph) with anchor spikes
Power Requirements		
Power	100-277V AC	100-277V AC
Consumption	Less than 150W	Less than 250W



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