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## Features and Benefits

- **Extreme Portability-** 80% less volume and weight vs. portable rigid satellite antennas (2.4m terminal packs in 2 cases, weighing under 100 lbs each)
- **Lower Cost of Ownership-** Drastically reduces shipping expense. Larger dish enables higher bandwidth/lower satellite access cost
- **Reliability in Extreme Environments-** Greater stability in high winds, durable in extreme temperatures MIL-STD-810G tested
- **Ease of Set Up-** Can be set up and on satellite in under 30 minutes



## GATR 2.4m Inflatable 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 2.4-meter satellite terminal in as few as two airline checkable cases weighing less than 100 lbs each. This reduces pack-out weight and volume by up to 80% compared to deployable rigid antennas, making it ideal for first-in deployments, remote applications and contingency scenarios where transportation and space are limited.

GATR's 2.4m terminal is currently used by U.S. and foreign militaries, intelligence, and homeland security organizations, as well as commercial and non-governmental organizations. Available in Ku-, C-, and WGS Certified X- and Ka-bands.

**Type Designator: AN/TSC-212 & AN/TSC-233**



# GATR 2.4m Antenna System



## Specifications

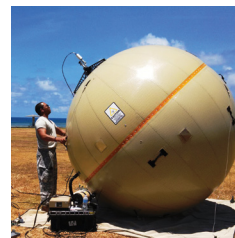
2 cases, < 200 lbs total for single band — custom configurations available

Specifications	C-band	X-band	Ku-band	Ka-band
Set Up Time	Under 30 minutes on satellite	Under 30 minutes on satellite	Under 30 minutes on satellite	Under 30 minutes on satellite
Size/Weight - Totals	Weights indicate baseline system without spectrum analyzer, UPS, or modem.			
Standard Antenna Case 1 (31x20x15 in.) (79x51x38 cm)	96 lbs. (43.5 kg)	96 lbs. (43.5 kg)	96 lbs. (43.5 kg)	96 lbs. (43.5 kg)
Standard Electronics Case 2 (31x20x15 in.) (79x51x38 cm)	92 lbs. (41.7 kg)	69 lbs. (31.3 kg)	83 lbs. (37.6 kg)	69 lbs. (31.3 kg)
IATA Case Solutions Available				
Antenna and RF System				
Optics	Prime focus	Prime focus	Prime focus	Prime focus
Reflector Construction	Flexible parabolic fabric	Flexible parabolic fabric	Flexible parabolic fabric	Flexible parabolic fabric
Az/EI/Pol	Manual point and align	Manual point and align	Manual point and align	Manual point and align
Modem	Works with all standard SATCOM modems	Works with all standard SATCOM modems	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	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	CAT-5 cable for IP applications	CAT-5 cable for IP applications
Elevation	5 to 90 deg	5 to 90 deg	5 to 90 deg	5 to 90 deg
Azimuth	+/-10 deg of hold-downs	+/-10 deg of hold-downs	+/-10 deg of hold-downs	+/-10 deg of hold-downs
Polarization	Linear/Circular	Circular	Linear	Circular
Transmit Gain (Mid-band)	41.5 dBi	43.9 dBi	48.0 dBi	53.0 dBi
Receive Gain (Mid-band)	37.4 dBi	43.2 dBi	47.2 dBi	49.7 dBi
Cross-Pol Isolation	>27 dB	>30 dB	>30 dB	>30 dB
G/T	17.3 dB/K @ 20 deg elevation	22.92 dB/K @ 15 deg elevation	26.2 dB/K @ 20 deg elevation	25.9 dB/K @ 15 deg elevation
EIRP	59.1 dBW with 80W BUC	62.9 dBW with 80W BUC saturated 61.1 dBW with 80W BUC linear	62.5 dBW with 60W BUC	64.0 dBW with 25W BUC
LNB	Gain = 59 dB, NF < 0.5 dB	Gain = 60 dB, NF = 0.7 dB	Gain = 62 dB, NF = 0.7 dB	Gain = 60 dB, NF = 1.5 dB
TX Radiation Compliance	FCC licensed	ARSTRAT certified	FCC licensed	ARSTRAT certified
Satellite System Compliance	Intelsat, SES, Optus	WGS, Skynet, XTAR	Intelsat, SES, Optus	WGS
Environmental				
Temperature	Operational: -32 to +55°C Storage: -40 to +60°C	Operational: -32 to +55°C Storage: -40 to +60°C	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	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	100 - 277V AC	100 - 277V AC
Consumption	Less than 600W	Less than 600W	Less than 300W (12W BUC), Less than 600W (60W BUC)	Less than 900W

## GATR 2.4m Antenna System Details



**GATR 2.4m**  
(2 cases, < 200 lbs total)



# 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.

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