

Changing the Shape of SATCOM



GATR 1.8 Meter Antenna System

GATR is revolutionizing the ultra-portable SATCOM industry with its inflatable stand-alone communications terminal. Compared to other deployable rigid dishes of comparable size, GATR's unique shape and designs enable...

Extreme Portability

50%-80% less volume and weight than rigid satellite antennas (single-band terminal packs in 2 cases, weighing under 99 lbs. each).

Lower Operating Cost

Drastically reduces shipping expense. Larger dish enables higher bandwidth/lower satellite access cost.

Reliability in Extreme Environments

Greater stability in high winds (40+mph). Durable in extreme temperatures.

Ease of Set Up

Set up in under 30 minutes without special tools.



A flexible dish and radome design enables the transport of GATR's 1.8m single-band terminal in 2 cases, weighing less than 99 lbs. each, making it **The Most Portable 1.8-Meter Satellite Antenna in the World.**

The GATR is currently used by U.S. and foreign military, intelligence, and homeland security, as well as commercial and non-governmental organizations at Ku-, C-, and X-band (WGS certified). Visit www.GATR.com, or contact us for a demonstration.



Enabling Satellite Communications Around the World

www.GATR.com

GATR 1.8 Meter Antenna System – Changing the Shape of SATCOM

GATR's unique inflatable design enables the transport of GATR's 2.4m single-band terminal in 2 cases, weighing less than 99 lbs. each, making it The Most Portable 1.8-Meter Satellite Antenna in the World.



GATR Operates in Extreme Heat... Extreme Cold...



... and Extreme Situations.



GATR 1.8m Antenna System Specifications			
Specification	X-band	Ku-band	Ka-band
Set Up Time	Under 30 minutes on satellite	Under 30 minutes on satellite	Under 30 minutes on satellite
Size/Weight - Total			
Standard Antenna Case 1 (31x20x15 in.) (79x51x38 cm)	94 lbs. (43.5 kg)	94 lbs. (43.5 kg)	94 lbs. (43.5 kg)
Standard Electronics Case 2 (31x20x15 in.) (79x51x38 cm)	69 lbs. (31.3 kg) ^	83 lbs. (37.6 kg) *	70.5 lbs. (32 kg)
IATA Case Option (24.4x20.5x10.8) (61.9x52.2x27.4 cm):	IATA Case Solution Available		
	Weights indicate baseline system without spectrum analyzer, UPS, or modem unless otherwise indicated.		
Antenna and RF System			
Optics	Prime Focus	Prime Focus	Prime Focus
Reflector Construction	Flexible parabolic fabric	Flexible parabolic fabric	Flexible parabolic fabric
Az/EI/Pol	Manual point and align	Manual point and align	Manual point and align
Modem	iDirect (standard) but works with all other standard satcom modems	iDirect (standard) but works with all other standard satcom modems	iDirect (standard) but works with all other 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
Interface	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
Azimuth	+/-10 deg of hold-downs	+/-10 deg of hold-downs	+/-10 deg of hold-downs
Polarization	circular	linear	circular
Gain (transmit)	41.2 dBi	46.0 dBi	52.0 dBi
Gain (receive)	40.4 dBi	44.7 dBi	49.7 dBi
Cross-Pol Isolation	>30 dB	> 30 dB	> 30 dB
G/T	18.9 dB/K @ 20 deg elevation	23.0 dB/K @ 20 deg elevation	24.2 dB/K @ 20 deg elevation
EIRP	60.2 dBW with 80W BUC	62.5 dBW with 40W BUC	61.8 dBW with 25W BUC
LNB	Gain = 60 dB, NF = 0.7 dB	Gain = 62 dB, NF = 0.7 dB	Gain = 62 dB, NF = 1.2 dB
TX Radiation Compliance (FCC)	ARSTRAT certified	FCC Licensed	ARSTRAT certified
Satellite System Compliance	WGS, Paradigm, XTAR	Intelsat	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
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
Power Requirements			
Power	120V AC	120V AC	120V AC
Consumption	Less than 900W	Less than 300W	Less than 300W

^ Weight with 80W BUC * Weight with 3W BUC (typical configuration 40W BUC and HPA)

