



Airline Carry-on, Backpack, or Hard Case 1.2m High-Bandwidth SATCOM Solution

# Changing the shape of **SATCOM**

## with the GATR 1.2 Meter Class Satellite Terminal

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

GATR's unique antenna design, an inflatable radome and flexible parabolic reflector mounted at the equator, enable deployment of a single Ku-band 1.2-meter satellite terminal in one airline checkable case weighing less than 75 lbs. (34 kg) each. 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.

Visit [www.GATR.com](http://www.GATR.com), or contact us for demonstration.

Compared to deployable rigid dishes of comparable size, 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.
- › **Ease of Set Up** – Set up in under 20 minutes with no special tools
- › **Available in Ku- and X-band**





### GATR 1.2 Meter Antenna System Specifications

#### GATR 1.2 Meter Antenna System



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
Gain (transmit)	43.0 dBi	36.9 dBi
Gain (receive)	41.5 dBi	36.5 dBi
Cross-Pol Isolation	>30 dB	>30 dB
G/T	20.7 dB/K @ 20 deg elevation	15.0 dB/K @ 20 deg elevation
EIRP	53.8 dBW with 12W BUC	50.1 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	Skyнет 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