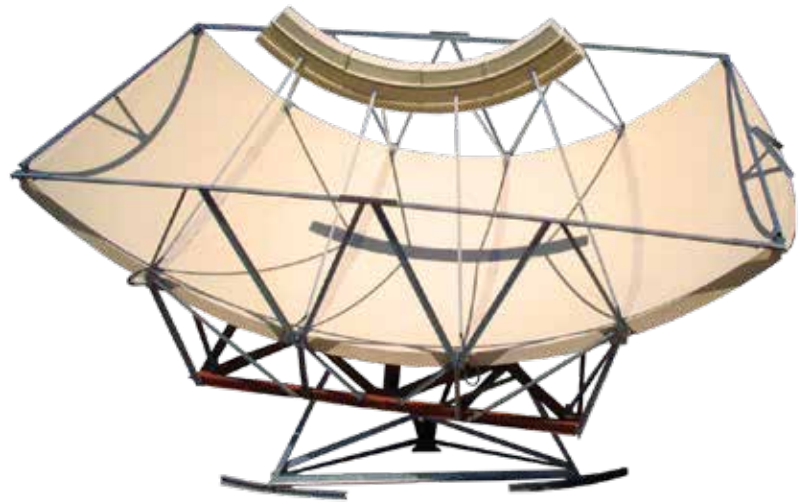


# SIMULSAT 7



## Features

- Market Leader in Multibeam Technology Since 1979
- One Antenna Performs Like 35 Parabolics
- Fixed Antenna With No Moving Parts to Service
- Commercial Quality Composite Construction
- Programming Movement: Due to Constant Satellite Programming Changes, Simulsat Users Can Add Another Feed Without Having to Purchase Another Antenna
- Receives, With Uniform Performance, Signals From All Satellites Within a 70 Degree View Arc.

## Summary

The **Simulsat™ 7** Multibeam Earth Station is the world's only antenna that can simultaneously receive signals from up to 35 satellites within a 70° view arc, with equal performance on each satellite. Simulsat is approximately equivalent in cost to three C-Band parabolic antennas, but performs like 35. Since an increasing number of applications require multiple satellite reception, return on initial investment is immediate.

## Benefits

- Lowers Overall Costs – Return on Initial Investment is Immediate
- Requires Less Space than multiple parabolic antennas.
- Curbs Real Estate Costs – Best Alternative to Antenna Farms
- Outperforms Retrofits – Simulsat receives, with uniform performance, signals from all satellites within a 70 degree view arc.

## Applications

- Broadcasters
- Cable Television
- Universities/Distance Learning
- Television and Radio
- Military/Government
- Corporations

# Specifications: Simulsat 7 Multibeam Antenna

<b>ELECTRICAL</b>	<b>C-Band</b>	<b>Ku-Band</b>
Frequency	3.4 - 4.2 GHz	10.7 - 12.75 GHz
Gain (+/-1dB avg across the view arc)	46 dBi	47 dBi
Beamwidth	0.8°	0.25°
VSWR	1.3	1.3
Feed Cross-Pol. Isolation	35 dB	35 dB
<b>MECHANICAL</b>		
Reflector Size	23' x 42' (7.0m x 12.8m)	
Mount	Galvanized Steel	
Arc Coverage	70°	
Number of Simultaneous Feeds	Up to 35 Satellites	
Reflector Construction	Composite Fiberglass	
Reflector Pieces	5 Panels	
Mount Type (Fixed)	Standard Mount	
<b>SHIPPING INFORMATION</b>		
Shipping Weight	27,444 lbs (12,448 kg)	
Max Weight (Off-Load Ship Crates)	6,752 lbs (3,063 kg)	
<b>ENVIRONMENTAL</b>		
Wind Loading - Operational	90 mph (144.8 km/h)	
Wind Loading - Survival	125mph (201.2 km/h)	
<b>FOUNDATION CONCRETE</b>		
Foundation Area (90 and 125 mph)	22' 4" x 30' 7" (6.8m x 9.3m)	
Foundation Volume		
90 mph (144.8 km/h)	101.2 yd <sup>3</sup> (77.35m <sup>3</sup> )	
125 mph (201.2 km/h)	113.9 yd <sup>3</sup> (87.06m <sup>3</sup> )	