

Satellite Earth Station Antennas

Simulsat 7



Features

- Market Leader in Multibeam Technology Since 1979
- One Antenna Performs Like 37 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 75 Degree View Arc.

Summary

The Simulsat™ 7 Multibeam Earth Station is the world's only antenna that can simultaneously receive signals from up to 37 satellites within a 75° view arc, with equal performance on each satellite. Simulsat is approximately equivalent in cost to three C-Band parabolic antennas, but performs like 37. 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 – Simulsat is the size of 1 ½ parabolics
- Curbs Real Estate Costs – Best Alternative to Antenna Farms
- Outperforms Retrofits – Simulsat receives, with uniform performance, signals from all satellites within a 75 degree view arc.

Applications

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

Specifications: Simulsat 7 Multibeam Antenna

ELECTRICAL

Frequency	3.7 - 4.2 GHz
Gain (+/-1 dB across the view arc)	46 dB
Beamwidth	0.8 degree
VSWR	1.3
Feed Cross-Pol. Isolation	35 dB

MECHANICAL

Reflector Size	7.0 x 12.8 meters (23' x 42.0 feet)
Mount	Galvanized
Arc Coverage	75 Degrees
Number of Simultaneous Feeds	Up to 37 Satellites
Reflector Construction	Composite Fiberglass
Reflector Pieces	5 Sections
Mount Type (Fixed)	Low Mount

SHIPPING INFORMATION

Shipping Weight	12,448 kg (27,444 lbs)
Max Weight (Off-Load Ship Crates)	3,063 kg (6,752 lbs)

ENVIRONMENTAL

Wind Loading - Operational	144.8 km/h (90 mph)
Wind Loading - Survival	201.2 km/h (125mph)
Foundation Size (Area)	6.1 x 9.1 meter (20 x 30 feet)

FOUNDATION CONCRETE

144.8 km/h (90 mph)	13.8m ³
201.2 km/h (125 mph)	23m ³