

SIMULSAT 7A



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 70° – 75° View Arc.

Summary

The **Simulsat™ 7A** Multibeam Earth Station is the world's only antenna that can simultaneously receive signals from up to 37 satellites within a 70° – 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 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° – 75° view arc.

Applications

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

Specifications: Simulsat 7A Multibeam Antenna

ELECTRICAL	C-Band	Ku-Band
Frequency	3.4 - 4.2 GHz	10.7 - 12.75 GHz
Gain (+/-1dB avg across the view arc)	46.5 dBi	47.5 dBi
Beamwidth	0.8°	0.25°
VSWR	1.3	1.3
Feed Cross-Pol. Isolation	35 dB	35 dB
MECHANICAL		
Reflector Size	23' x 42' (7.0m x 12.8m)	
Mount	Galvanized Steel	
Arc Coverage	70° – 75°	
Number of Simultaneous Feeds	Up to 37 Satellites	
Reflector Construction	Composite Fiberglass	
Reflector Pieces	5 Panels	
Mount Type (Fixed)	Standard Mount	
SHIPPING INFORMATION		
Shipping Weight	27,444 lbs (12,448 kg)	
Max Weight (Off-Load Ship Crates)	6,752 lbs (3,063 kg)	
ENVIRONMENTAL		
Wind Loading - Operational	90 mph (144.8 km/h)	
Wind Loading - Survival	125mph (201.2 km/h)	
FOUNDATION CONCRETE		
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 ³ (77.35m ³)	
125 mph (201.2 km/h)	113.9 yd ³ (87.06m ³)	