

SIMULSAT 5B



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™ 5B** 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 commercial 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

- Increased Revenue Stream
- 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 70 degree view arc.

Applications

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

Specifications: Simulsat 5B 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)	44.5 dBi	47.5 dBi
Beamwidth	1.0°	0.4°
VSWR	1.3	1.3
Feed Cross-Pol. Isolation	35 dB	35 dB
MECHANICAL		
Reflector Size	17' 2" x 31' 5" (5.2m x 9.6m)	
Mount	Galvanized Steel	
Arc Coverage	70°	
Number of Simultaneous Feeds	Up to 35 Satellites	
Reflector Construction	Composite Fiberglass	
Reflector Pieces	3 Panels	
Mount Type (Fixed)	Low / Standard / High Mount	
SHIPPING INFORMATION		
Shipping Weight	6,300 lbs (2,858 kg)	
Max Weight (Off-Load Ship Crates)	3,400 lbs (1,542 kg)	
ENVIRONMENTAL		
Wind Loading - Operational	90 mph (144.8 km/h)	
Wind Loading - Survival	125 mph (201.2 km/h)	
FOUNDATION CONCRETE		
Foundation Area (90 and 125 mph)	13' x 14' (4.0m x 4.3m)	
Foundation Volume		
90 mph (144.8 km/h)	27.0 yd ³ (21.0m ³)	
125 mph (201.2 km/h)	30.3 yd ³ (23.2m ³)	