

## Multibeam Earth Stations

# **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

<p><b>ELECTRICAL</b></p> <p>Frequency Gain (+/-1dB across the view arc) Beamwidth VSWR Feed Cross-Pol. Isolation</p>	<p>3.4 - 4.2 GHz 44 dBi 1.0 degree 1.3 35 dB</p>
<p><b>MECHANICAL</b></p> <p>Reflector Size Mount Arc Coverage Number of Simultaneous Feeds Reflector Construction Reflector Pieces Mount Type (Fixed)</p>	<p>5.0 x 8.8 meters (16.5' x 28.0 feet) Galvanized 70 Degrees Up to 35 Satellites Composite Fiberglass 3 Sections Low or High Mount</p>
<p><b>SHIPPING INFORMATION</b></p> <p>Shipping Weight Max Weight (Off-Load Ship Crates)</p>	<p>2,250 kg (4,960 lbs) 1,154 kg (2,543 lbs)</p>
<p><b>ENVIRONMENTAL</b></p> <p>Wind Loading - Operational Wind Loading - Survival Foundation Size (Area)</p>	<p>144.8 km/h (90 mph) 201.2 km/h (125 mph) 4.0 x 4.3 meter (13 x 14 feet)</p>
<p><b>FOUNDATION CONCRETE</b></p> <p>144.8 Km/h (90 mph) 201.2 km/h (125 mph)</p>	<p>6.9m<sup>3</sup> 13m<sup>3</sup></p>