



# **SIMULSAT**

## **C/Ku**

### **Features**

- Up to 3 Times Improved Surface Tolerance Performance Over Standard Simulsat 5
- 4 Panel Design Allows For Improved Shippability - Lower Costs
- State-of-the-Art CNC Tooling (Computer Numerical Control)
- Laser Verified Tolerances
- Better Adjacent Satellite Performance
- 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

### **Summary**

Simulsat C/Ku 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. Since an increasing number of applications require multiple satellite reception, return on initial investment is immediate. Simulsat C/Ku is the only antenna you will need.

### **Benefits**

- Improved C & Ku Band Performance, Particularly Ku-Band
- Increases Revenue Stream - Allows Cable Operators to Pick Programming from 20,000-Plus Channels
- Lowers Overall Costs – Return on Initial Investment is Immediate
- Requires Less Space – Simulsat is the size of 2 Parabolics., Approximately 3 Parking Spaces
- Aesthetics - Curbs Real Estate Costs – Best Alternative to Antenna Farms
- Outperforms Parabolic 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 C/Ku 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 across the view arc)	44.5 dBi	47.5 dBi
Beamwidth	1°	0.4°
VSWR	1.3	1.3
Feed Cross-Pol. Isolation	35 dB	35 dB
<b>MECHANICAL</b>		
Reflector Size	17' 4" x 32' 7" (5.3m x 9.9m)	
Mount	Galvanized Steel	
Arc Coverage	70°	
Number of Simultaneous Feeds	Up to 35 Satellites	
Reflector Construction	Composite Fiberglass	
Reflector Pieces	6 Panels	
Mount Type (Fixed)	Low / Standard / High Mount	
<b>SHIPPING INFORMATION</b>		
Shipping Weight	8,200 lbs (3,720 kg)	
Max Weight (Off-Load Ship Crates)	4,000 lbs (1,815 kg)	
<b>ENVIRONMENTAL</b>		
Wind Loading - Operational	90 mph (144.8 km/h)	
Wind Loading - Survival	125 mph (201.2 km/h)	
<b>FOUNDATION CONCRETE</b>		
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 <sup>3</sup> (21.0 m <sup>3</sup> )	
125 mph (201.2 km/h)	30.3 yd <sup>3</sup> (23.2m <sup>3</sup> )	