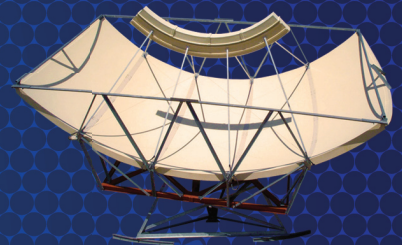
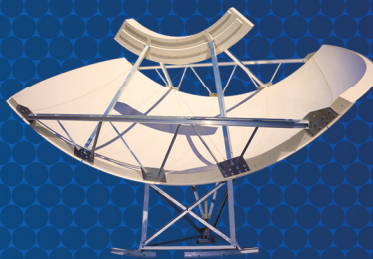


# ***SIMULSAT***

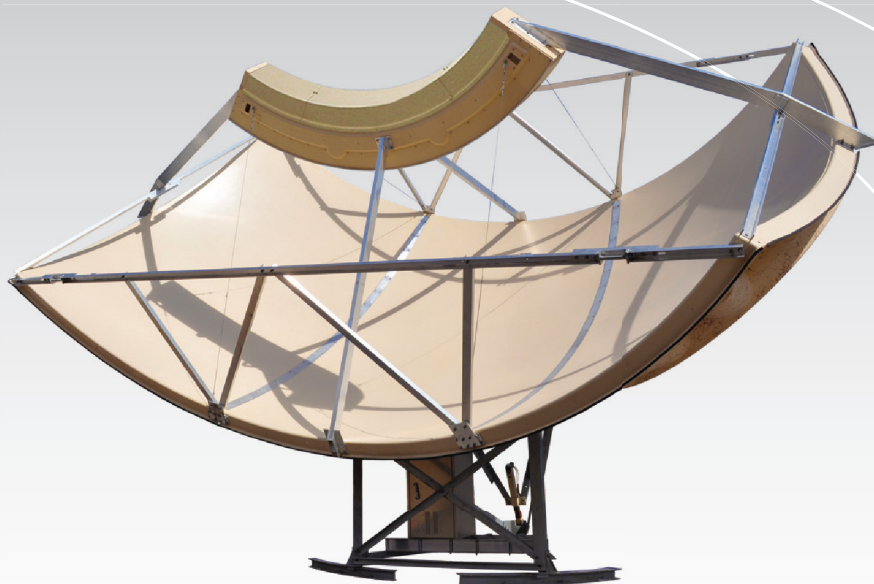


***Simulsat 5B • Simulsat C/Ku • Simulsat 7***



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# 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. Since an increasing number of applications require multiple satellite reception, return on initial investment is immediate.

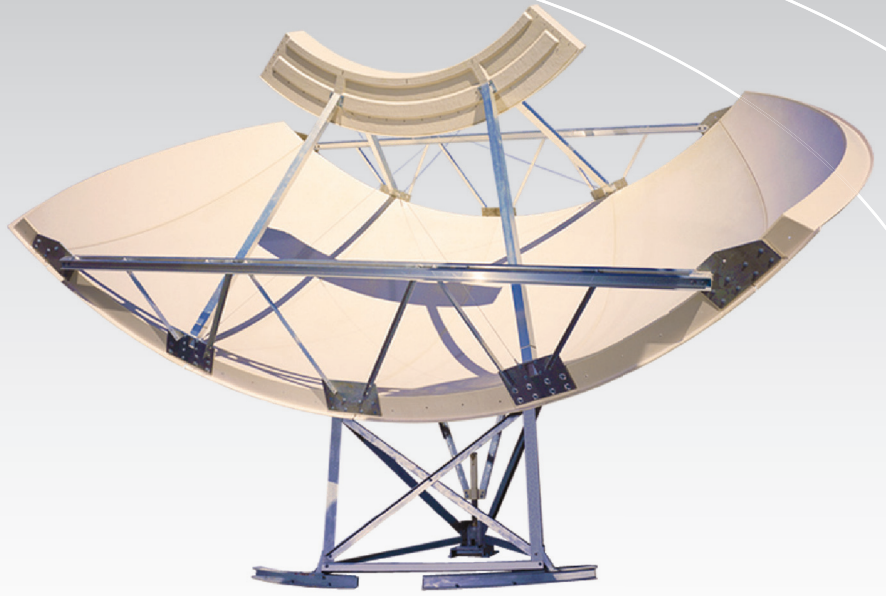
## Benefits

- Increased Revenue Stream
- Lowers Overall Costs – Return on initial investment is immediate
- Requires Less Space – Simulsat is the size of 2 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

# SIMULSAT C/Ku



## Features

- Up to 3 times improved surface tolerance performance over standard Simulsat 5
- 6 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
- Receives, with uniform performance, signals from all satellites within a 70 degree view arc

## 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

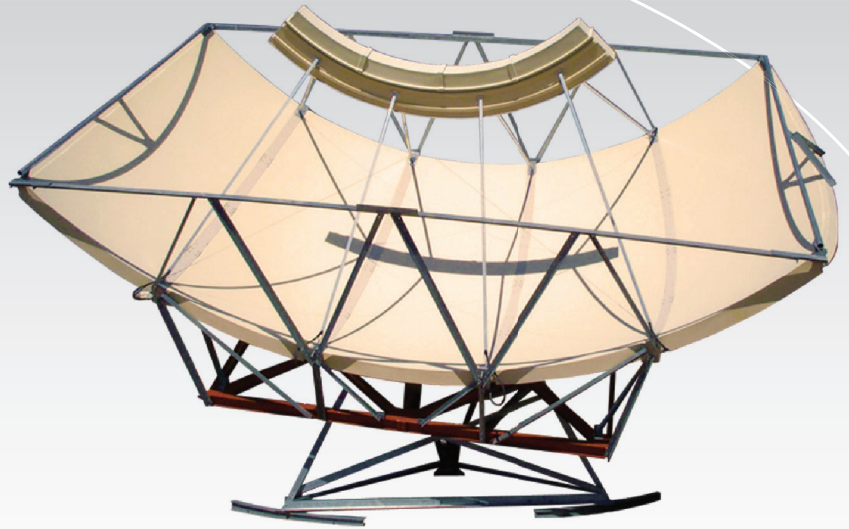
- Improved C & Ku band performance, particularly ku-band
- Increases revenue stream - Allows cable operators to pick programming from 20,000-plus channels
- Lowers Overall Costs – Return on initial investment is immediate
- Requires Less Space – Simulsat is the size of 2 parabolics., approximately 3 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



# 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. 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 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 75 degree view arc

## Applications

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

## Specifications: Simulsat 5B Multibeam Antenna

### ELECTRICAL

Frequency:	C-Band 3.4 - 4.2 GHz	Ku-Band 10.7 - 12.75 GHz
Gain (+/-1dB 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)
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### Foundation Volume

90 mph (144.8 km/h):	27.0 yd <sup>3</sup> (21.0m <sup>3</sup> )
125 mph (201.2 km/h):	30.3 yd <sup>3</sup> (23.2m <sup>3</sup> )

## Specifications: Simulsat C/Ku Multibeam Antenna

### ELECTRICAL

Frequency:	C-Band 3.4 - 4.2 GHz	Ku-Band 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

### MECHANICAL

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

### SHIPPING INFORMATION

Shipping Weight:	8,200 lbs (3,720 kg)
Max Weight (Off-Load Ship Crates):	4,000 lbs (1,815 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)
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### 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> )

## Specifications: Simulsat 7 Multibeam Antenna

### ELECTRICAL

Frequency:	C-Band 3.4 - 4.2 GHz	Ku-Band 10.7 - 12.75 GHz
Gain (+/-1dB across the view arc):	46 dBi	47 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:	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)
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### Foundation Volume

90 mph (144.8 km/h):	101.2 yd <sup>3</sup> (77.35m <sup>3</sup> )
125 mph (201.2 km/h):	113.9 yd <sup>3</sup> (87.06m <sup>3</sup> )

# Join the List of Satisfied Simulsat Customers Including

## Cable TV

Cable One  
Cablevision  
Charter  
Comcast  
Cox Communications  
Insight Communications  
Metrovision  
Suddenlink  
Time Warner

## Corporate Business

Intelsat  
Microsoft  
Motorola  
National Captioning Institute  
PanAmSat  
SES Americom  
Level 3  
Qualcomm  
Ericsson  
Associated Press  
Intel

## Television & Broadcast

CBS  
CNBC  
Bonneville Satellite  
Fox Network  
HBO  
Meredith Broadcasting  
Media World  
MSNBC  
NBC  
Nielsen Media  
XM Radio

## Universities & Colleges

BYU  
Penn State University  
Stanford  
USC  
U of Texas - MD Anderson Cancer Center

## Military & Government

*ATCi has supplied Simulsat and related products to military and government agencies throughout the U.S. and abroad under confidential contracts.*

## Rural Telco & Municipalities

Columbia Power and Water  
Fayetteville Power and Electric  
Iowa Network Services  
Ketchikan Public Utility  
Murray Electric System  
Project Mutual - Idaho  
South Dakota Network  
Panhandle Telecommunications

## International

Cablevision - Colombia  
Wind Telecom - Dominican Republic  
ESPN Deportes - Mexico  
Alcatel - Mexico  
Cablemas - Mexico  
Globocabo - Brazil  
Hong Kong Telecom - China  
KDDI - Japan  
SBS - South Korea  
ST Teleport - Singapore  
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