



WINEGARD®

REAL-TIME BROADBAND COMMUNICATION ANYWHERE

When traditional methods of communication are no longer feasible due to location or technological difficulties, VSAT antennas can provide Internet and phone connectivity on-demand. Winegard Special Products Division antennas use the strongest, most rugged actuators and motors in the industry, allowing for maximum reliability in extreme environments as well as providing the fastest acquisition times in the market. Built with heavy duty features and scalability suitable for energy and other enterprise applications.

The fully-integrated two-way controller features single-button operation without requiring an external PC. The Controller is rack-mountable, and the built-in DVB receiver and GPS makes the Winegard Two-Way Controller work on most platforms available in the industry including HughesNet™, iDirect, SpaceNet®, Comtech®, and Nera.



SF Series Automatic Small Footprint Antennas

Winegard SF Series antennas offer a small footprint internet and voice solution for remote areas and extreme environments. Winegard has updated the SF Series antennas to make it available with .75 m, .84 m, .98 m and 1.2 m reflectors. This series is highly customizable to fit any VSAT need.



[BUY NOW](#)

WINEGARD PROVIDES COMPLETE GLOBAL COMMUNICATIONS SOLUTIONS.

WINEGARD VSAT BENEFITS

- Heavy duty construction to withstand extreme environments
- Perfect for energy and other enterprise applications
- 2-way communication capability for data, video and voice
- Simple, single-button operation requiring no external PC
- Quick deployment
- Auto-acquisition of target satellite
- Rack-mountable controller included
- Built-in DVB receiver, GPS, compass and tilt sensors
- FCC part 25.209 compliant
- Little or no periodic maintenance required
- Easy field repair and minimal maintenance
- Fastest acquisition times in the industry



SF980 with Custom Skid Mount



Stowed



Deployed



WINEGARD®

REAL-TIME BROADBAND COMMUNICATION
ANYWHERE

SF SERIES

SF750

SF840

SF980

SF1200

GENERAL INFORMATION

Reflector Type	.75 m Elliptical Glass Fiber Reinforced Polyester SMC	.84 m Glass Fiber Reinforced Polyester SMC	.98 m Glass Fiber Reinforced Polyester SMC	1.2 m .8 F/D Glass Fiber Reinforced Polyester SMC
Optics Offset	Prime Focus Offset Feed	Prime Focus Offset Feed	Prime Focus Offset Feed	Prime Focus Offset Feed
BUC Supported*	5 lbs. / 7" L x 5" W x 2" H	5 lbs. / 7" L x 5" W x 2" H	15 lbs. / 12" L x 7.75" W x 5.5" H	15 lbs. / 12" L x 7.75" W x 5.5" H
Polarization*	Cross-pol	Cross-pol	Cross-pol	Cross-pol
Mount Geometry	Elevation Over Azimuth	Elevation Over Azimuth	Elevation Over Azimuth	Elevation Over Azimuth

DIMENSIONS

Stowed Dimensions	50" H x 37" L x 35.75" W	50" H x 37" L x 39.75" W	34" H x 45" L x 39.50" W	36" H x 60" L x 49" W
Max Deployed Height	50"	52"	60"	70"
Mount Rail Width	13"	13"	13"	13"
Weight	100 lbs. Approx	105 lbs. Approx	110 lbs. Approx	130 lbs. Approx

MECHANICAL

Range Of Motion: <i>Azimuth</i>	375° (+/- 187.5°)	375° (+/- 187.5°)	375° (+/- 187.5°)	375° (+/- 187.5°)
<i>Elevation</i>	5° to 90° Operational	5° to 90° Operational	11.6° to 118° Operational	11.6° to 118° Operational
<i>Polarization</i>	+/- 90°	+/- 90°	+/- 90°	+/- 90°
Speed: <i>Deploying Elevation</i>	4.6° Per Second	4.6° Per Second	4.6° Per Second	4.6° Per Second
<i>Stowing Elevation</i>	5.0° Per Second	5.0° Per Second	5.0° Per Second	5.0° Per Second
<i>Deploying Azimuth</i>	7.5° Per Second	7.5° Per Second	7.5° Per Second	7.5° Per Second
Time to Acquisition	< 2 Minutes (Typical)	< 2 Minutes (Typical)	< 2 Minutes (Typical)	< 2 Minutes (Typical)
Motors: <i>Elevation</i>	36V HD Linear Actuator (0.1° Resolution)	36V HD Linear Actuator (0.1° Resolution)	36V HD Linear Actuator (0.1° Resolution)	36V HD Linear Actuator (0.1° Resolution)
<i>Azimuth</i>	24V HD Brushless Motor (0.1° Resolution)	24V HD Brushless Motor (0.1° Resolution)	24V HD Brushless Motor (0.1° Resolution)	24V HD Brushless Motor (0.1° Resolution)
<i>Polarization</i>	24V HD Brushless Motor (0.1° Resolution)	24V HD Brushless Motor (0.1° Resolution)	24V HD Brushless Motor (0.1° Resolution)	24V HD Brushless Motor (0.1° Resolution)
Drive Override	Electrical Elevation, Manual for AZ and SK	Electrical Elevation, Manual for AZ and SK	Electrical Elevation, Manual for AZ and SK	Electrical Elevation, Manual for AZ and SK

RF

Tx Interface	WR75 Flange	WR75 Flange	Waveguide - 3' WR75 Flange Flexible and Twistable Waveguide	Waveguide - 3' WR75 Flange Flexible and Twistable Waveguide
Rx Interface	WR75 Flange	WR75 Flange	WR75 Flange	WR75 Flange
Frequency Range: <i>Rx</i>	10.95 - 12.75 Ghz	10.95 - 12.75 Ghz	10.95 - 12.75 Ghz	10.95 - 12.75 Ghz
<i>Tx</i>	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz
Gain (Midband): <i>Rx</i>	37.8 dBi @11.95 Ghz	38.8 dBi	39.8 dBi	41.5 dBi
<i>Tx</i>	39.3 dBi @14.25 Ghz	40.3 dBi	41.3 dBi	43 dBi
VSWR Rx & Tx	1.3:1	1.3:1	1.3:1	1.3:1
Beamwidth: <i>Rx</i>	2.0° @12.0 Ghz	1.9° (-3 dB)	1.8° (-3 dB), 3.3° (-10 dB)	1.4° (-3 dB), 2.4° (-10 dB)
<i>Tx</i>	1.6° @14.3 Ghz	1.5° (-3 dB)	1.5° (-3 dB), 2.8° (-10 dB)	1.2° (-3 dB), 2.1° (-10 dB)
Radiation Pattern Compliance	FCC § 25.209	FCC § 25.209	FCC § 25.209	FCC § 25.209
Antenna Noise Temperature	50°K (30° EI)	48K (30° EI)	47K (20° EI), 46K (30° EI)	46K (20° EI), 43K (30° EI)
Cross Pol Isolation on Axis Rx & Tx (Minimum)	30 dB	30 dB	30 dB	30 dB
Isolation Port to Port (Minimum): <i>Rx</i>	35 dB	35 dB	35 dB	35 dB
<i>Tx</i>	80 dB	80 dB	80 dB	80 dB

ENVIRONMENTAL

Wind: <i>Operational Deployed</i>	50+ MPH	50+ MPH	50+ MPH	50+ MPH
<i>Survival Deployed</i>	75 MPH	75 MPH	75 MPH	75 MPH
<i>Survival Stowed</i>	150 MPH	150 MPH	150 MPH	150 MPH
Temperature: <i>Operational</i>	-40°F to 127°F (-40°C to +50°C)	-40°F to 127°F (-40°C to +50°C)	-40°F to 127°F (-40°C to +50°C)	-40°F to 127°F (-40°C to +50°C)
<i>Survival</i>	-58°F to 176°F (-50°C to +80°C)	-58°F to 176°F (-50°C to +80°C)	-58°F to 176°F (-50°C to +80°C)	-58°F to 176°F (-50°C to +80°C)
Snow Load	8" deep (@8 lbs/cu. ft)	8" deep (@8 lbs/cu. ft)	8" deep (@8 lbs/cu. ft)	8" deep (@8 lbs/cu. ft)

ELECTRICAL

Controller Dimensions	2U 19" Rack Mountable	2U 19" Rack Mountable	2U 19" Rack Mountable	2U 19" Rack Mountable
Power Supply: <i>Input</i>	100-250V 3A Max	100-250V 3A Max	100-250V 3A Max	100-250V 3A Max
<i>Running Load</i>	47-63Hz 300W Max	47-63Hz 300W Max	47-63Hz 300W Max	47-63Hz 300W Max
<i>Output</i>	48V 6.7A Max	48V 6.7A Max	48V 6.7A Max	48V 6.7A Max
Electrical Data Interface*	RG6 60' (18.25 m)	RG6 60' (18.25 m)	RG6 60' (18.25 m)	RG6 60' (18.25 m)
Transmit (Tx)*	RG6 Compression F Connector	RG6 Compression F Connector	RG6 Compression F Connector	RG6 Compression F Connector
Receive (Rx)*	RG6 Compression F Connector	RG6 Compression F Connector	RG6 Compression F Connector	RG6 Compression F Connector
Sensors	GPS	GPS	GPS	GPS
	Compass +/- 15°	Compass +/- 15°	Compass +/- 15°	Compass +/- 15°
	Tilt +/- .5°	Tilt +/- .5°	Tilt +/- .5°	Tilt +/- .5°

*OPTIONS

Larger BUCs supported using Big BUC Mounting Hardware • Co-Pol • RG11 Cables • Reflector sizes .75 m, .84 m, .98 m, 1.2 m

www.winegard.com
OR CALL FOR MORE INFORMATION: 866-565-7974