WINEGARD®

REAL-TIME BROADBAND COMMUNICATION ANYWHERE

WINEGARD PROVIDES
COMPLETE GLOBAL
COMMUNICATIONS
SOLUTIONS.

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.

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

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

SF980 with Custom Skid Mount

Stowed

Deployed

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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: *Azimuth*	375° (+/- 187.5°)	375° (+/- 187.5°)	375° (+/- 187.5°)	375° (+/- 187.5°)
Elevation	5° to 90° Operational	5° to 90° Operational	11.6° to 118° Operational	11.6° to 118° Operational
Polarization	+/- 90°	+/- 90°	+/- 90°	+/- 90°
Speed: *Deploying Elevation*	4.6° Per Second	4.6° Per Second	4.6° Per Second	4.6° Per Second
Stowing Elevation	5.0° Per Second	5.0° Per Second	5.0° Per Second	5.0° Per Second
Deploying Azimuth	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: *Elevation*	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)
Azimuth	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)
Polarization	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: *Rx*	10.95 - 12.75 Ghz	10.95 - 12.75 Ghz	10.95 - 12.75 Ghz	10.95 - 12.75 Ghz
Tx	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz
Gain (Midband): *Rx*	37.8 dBi @11.95 Ghz	38.8 dBi	39.8 dBi	41.5 dBi
Tx	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: *Rx*	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)
Tx	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° El)	48K (30° El)	47K (20° El), 46K (30° El)	46K (20° El), 43K (30° El)
Cross Pol Isolation on Axis Rx & Tx (Minimum)	30 dB	30 dB	30 dB	30 dB
Isolation Port to Port (Minimum): *Rx*	35 dB	35 dB	35 dB	35 dB
Tx	80 dB	80 dB	80 dB	80 dB
ENVIRONMENTAL				
Wind: *Operational Deployed*	50+ MPH	50+ MPH	50+ MPH	50+ MPH
Survival Deployed	75 MPH	75 MPH	75 MPH	75 MPH
Survival Stowed	150 MPH	150 MPH	150 MPH	150 MPH
Temperature: *Operational*	-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)
Survival	-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: *Input*	100-250V 3A Max	100-250V 3A Max	100-250V 3A Max	100-250V 3A Max
Running Load	47-63Hz 300W Max	47-63Hz 300W Max	47-63Hz 300W Max	47-63Hz 300W Max
Output	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

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