

Real-Time Broadband Communication

ANYWHERE

Winegard SF Series

Automatic Small Footprint Antennas



WINEGARD®

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 .84 m and 1.2 m reflectors. This series is highly customizable to fit any VSAT need.

SF840

.84 m Automatic Small Footprint Antenna

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 Auto-Acquire VSAT Antenna Systems are designed around the strongest, most rugged gear trains and motors in the industry. These drive trains provide for maximum reliability in extreme environments and very low back lash. The units are designed with heavy duty features suitable for the energy vertical and other enterprise applications. The antenna systems use the modem to search and peak on signal providing very accurate and repeatable pointing accuracy.

All Winegard VSAT antenna systems include a fully-integrated antenna controller that features single-button operation without requiring an external PC. The Winegard controller is the only controller in the industry that incorporates a touch-screen allowing for ease of programming and operation. The controllers are 2U rack-mountable and have a place to store the modem in the 2U footprint.



SF SERIES ANTENNAS ARE HIGHLY
CUSTOMIZABLE TO FIT ANY VSAT NEED.

www.winegard.com

or call for more information: **866-565-7974**



SF SERIES

SF840

SF1200

GENERAL INFORMATION

Reflector Type	.84 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
BUC Supported*	5 lbs. / 7" L x 5" W x 2" H	15 lbs. / 12" L x 7.75" W x 5.5" H
Polarization*	Cross-pol	Cross-pol
Mount Geometry	Elevation Over Azimuth	Elevation Over Azimuth

DIMENSIONS

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

MECHANICAL

Range Of Motion: Azimuth	375° (+/- 187.5°)	375° (+/- 187.5°)
Elevation	5° to 90° Operational	11.6° to 118° Operational
Polarization	+/- 90°	+/- 90°
Speed: Deploying Elevation	4.6° Per Second	4.6° Per Second
Stowing Elevation	5.0° Per Second	5.0° Per Second
Deploying Azimuth	7.5° Per Second	7.5° Per Second
Time to Acquisition	< 2 Minutes (Typical)	< 2 Minutes (Typical)
Motors: Elevation	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)
Polarization	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

RF

Tx Interface	WR75 Flange Flange Flexible and Twistable Waveguide	Waveguide - 3' WR75 Flange Flexible and Twistable Waveguide
Rx Interface	WR75 Flange	WR75 Flange
Frequency Range: Rx	10.95 - 12.75 Ghz	10.95 - 12.75 Ghz
Tx	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz
Gain (Midband): Rx	38.8 dBi	41.5 dBi
Tx	40.3 dBi	43 dBi
VSWR Rx & Tx	1.3:1	1.3:1
Beamwidth: Rx	1.9° (-3 dB)	1.4° (-3 dB), 2.4° (-10 dB)
Tx	1.5° (-3 dB)	1.2° (-3 dB), 2.1° (-10 dB)
Radiation Pattern Compliance	FCC § 25.209	FCC § 25.209
Antenna Noise Temperature	48K (30° EI)	46K (20° EI), 43K (30° EI)
Cross Pol Isolation on Axis Rx & Tx (Minimum)	30 dB	30 dB
Isolation port to port (Minimum): Rx	35 dB	35 dB
Tx	80 dB	80 dB

ENVIRONMENTAL

Wind: Operational Deployed	50+ MPH	50+ MPH
Survival Deployed	75 MPH	75 MPH
Survival Stowed	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)
Survival	-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)

ELECTRICAL

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

*OPTIONS

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

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