



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.



SPA Series Fixed Pole Mount 2-Way Antennas

Winegard SPA Series antennas are economically priced, fixed-pole mounted, communications satellite antennas. The Winegard SPA is a motorized auto-acquiring, multi-platform dish antenna that can be mounted to portable or permanent bases. Commonly used in oil and gas industries and military applications.

The SPA has multiple deployment sensors for quick signal acquisition, including a global positioning satellite, a compass and a tilt sensor. The antennas are operational in winds of up to 50 mph, a critical consideration for off-shore applications, and can survive up to 150 mph winds.

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



SPA980

.98M Multi-Platform, Fixed-Base



SPA1200

1.2M Multi-Platform, Fixed-Base

*SPA1200
with Custom
Skid Mount*



SPA1800

1.8M Multi-Platform, Fixed Base





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SPA SERIES

GENERAL INFORMATION

Reflector Type	.98 M Glass Fiber Reinforced Polyester SMC Prime Focus Offset Feed	1.2 M Glass Fiber Reinforced Polyester SMC Prime Focus Offset Feed	1.8 M Glass Fiber Reinforced Polyester SMC Prime Focus Offset Feed
Optics Offset			
BUC Supported*	15 lbs. / 12" L x 7.75" W x 5.5" H	15 lbs. / 12" L x 7.75" W x 5.5" H	6 lbs. / 7.35" L x 6.54" W x 3" H
Polarization*	Cross-pol	Cross-pol	Cross-pol
Mount Geometry	Elevation Over Azimuth	Elevation Over Azimuth	Elevation Over Azimuth

DIMENSIONS

Stowed Dimensions	NA	NA	NA
Max Deployed Height	60" on 30" tall post	88" on 30" tall post	92" on 30" tall post
Mount Rail Width	NA	NA	NA
Weight	86 lbs. Approx	95 lbs. Approx	200 lbs. Approx

MECHANICAL

Range Of Motion: <i>Azimuth</i>	342° (+/- 171°)	342° (+/- 171°)	342° (+/- 171°)
<i>Elevation</i>	12° to 93° Operational	12° to 93° Operational	12° to 93° Operational
<i>Polarization</i>	+/- 90°	+/- 90°	+/- 90°
Speed: <i>Deploying Elevation</i>	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
<i>Deploying Azimuth</i>	0.4° Per Second	0.4° Per Second	0.4° Per Second
Time to Acquisition	< 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)
<i>Azimuth</i>	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)
Drive Override	Electrical Elevation, Manual for AZ and SK	Electrical Elevation, Manual for AZ and SK	Electrical Elevation, Manual for AZ and SK

RF

Tx Interface	Waveguide - 3' WR75 Flange Flexible & Twistable Waveguide w/O-ring groove	Waveguide - 3' WR75 Flange Flexible and Twistable Waveguide	WR75 Flange Flange Flexible and Twistable Waveguide
Rx Interface	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
<i>Tx</i>	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz
Gain (Midband): <i>Rx</i>	39.8 dBi	41.5 dBi	45.3 dBi
<i>Tx</i>	41.3 dBi	43 dBi	46.6 dBi
VSWR Rx & Tx	1.3:1	1.3:1	1.3:1 Tx / 1.5:1 Rx
Beamwidth: <i>Rx</i>	1.8° (-3 dB), 3.3° (-10 dB)	1.4° (-3 dB), 2.4° (-10 dB),	1.0° (-3 dB), 2.4° (-10 dB),
<i>Tx</i>	1.5° (-3 dB), 2.8° (-10 dB)	1.2° (-3 dB), 2.1° (-10 dB)	0.8° (-3 dB), 2.1° (-10 dB)
Radiation Pattern Compliance	FCC § 25.209	FCC § 25.209	FCC § 25.209
Antenna Noise Temperature	47K (20° El), 46K (30° El)	46K (20° El), 43K (30° El)	28K (20° El), 23K (30° El)
Cross Pol Isolation on Axis Rx & Tx (Minimum)	30 dB	30 dB	30 dB
Isolation port to port (Minimum): <i>Rx</i>	35 dB	35 dB	35 dB
<i>Tx</i>	80 dB	80 dB	80 dB

ENVIRONMENTAL

Wind: <i>Operational Deployed</i>	50+ MPH	50+ MPH	50+ MPH
<i>Survival Deployed</i>	75 MPH	75 MPH	75 MPH
<i>Survival Stowed</i>	NA	NA	NA
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)
<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)
Snow Load	NA	NA	NA

ELECTRICAL

Controller Dimensions	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
<i>Running Load</i>	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
Electrical Data Interface*	G66 60' (18.25 m)	G66 60' (18.25 m)	G66 60' (18.25 m)
Transmit (Tx)*	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
Sensors	GPS	GPS	GPS
	Compass +/- 15°	Compass +/- 15°	Compass +/- 15°
	Tilt +/- .5°	Tilt +/- .5°	Tilt +/- .5°

*OPTIONS

Larger BUCs supported using Big BUC Mounting Hardware • Co-Pol • RG11 Cables



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