

Real-Time Broadband Communication

ANYWHERE

## Winegard WX Series

Roof Mounted 2-Way Internet Antennas



WINEGARD®

Winegard WX Series antennas are the most popular, capable of stowing in a folded position for easy travel on the roof of oil field service trucks, emergency vehicles (FEMA), trailers and tour buses. Made with the strongest, most rugged actuators in the industry, WX Series antennas are built for maximum reliability.

The Winegard WX Series Antennas are available in .98 m and 1.2 m configurations that feature extremely heavy duty options and scalability for the energy and enterprise markets.



**WX980**

.98 m Roof Mounted Antenna



WX980 stowed



**WX1200**

1.2 m Roof Mounted Antenna



Customized Skid with **WX1200**  
Auto-Deploy Antenna



[www.winegard.com](http://www.winegard.com)

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

**Fully Automatic!**





PERU  
HOMOLOGATION



WX980



WX1200

**WX SERIES**

**GENERAL INFORMATION**

Reflector Type	.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
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
Polarization	Cross-pol	Cross-pol
Mount Geometry	Elevation Over Azimuth	Elevation Over Azimuth

**DIMENSIONS**

Stowed Dimensions	15" H x 70.5" L x 39.5" W	15" H x 85.75" L x 49" W
Max Deployed Height	71.5"	84"
Mount Rail Width	13"	13"
Weight	140 lbs. Approx	150 lbs. Approx

**MECHANICAL**

Range Of Motion: <i>Azimuth</i>	375° (+/- 187.5°)	375° (+/- 187.5°)
<i>Elevation</i>	5° to 100° Operational	5° to 100° Operational
<i>Polarization</i>	+/- 90°	+/- 90°
Speed: <i>Deploying Elevation</i>	4.6° Per Second	4.6° Per Second
<i>Stowing Elevation</i>	5.0° Per Second	5.0° Per Second
<i>Deploying Azimuth</i>	7.5° Per Second	7.5° Per Second
Time to Acquisition	< 2 Minutes (Typical)	< 2 Minutes (Typical)
Motors: <i>Elevation</i>	24V HD Linear Actuator (0.1° Resolution)	24V HD Linear Actuator (0.1° Resolution)
<i>Azimuth</i>	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)
Drive Override	Electrical Elevation, Manual for AZ and SK	Electrical Elevation, Manual for AZ and SK

**RF**

Tx Interface	Waveguide - 3' WR75	WR75 Flange
	Flange Flexible and Twistable Waveguide	Flange Flexible and Twistable Waveguide
Rx Interface	WR75 Flange	WR75 Flange
Frequency Range: <i>Rx</i>	10.95 - 12.75 Ghz	10.95 - 12.75 Ghz
<i>Tx</i>	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz
Gain (Midband): <i>Rx</i>	39.8 dBi	41.5 dBi
<i>Tx</i>	41.3 dBi	43 dBi
VSWR Rx & Tx	1.3:1	1.3:1
Beamwidth: <i>Rx</i>	1.8° (-3 dB), 3.3° (-10 dB)	1.4° (-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)
Radiation Pattern Compliance	FCC § 25.209	FCC § 25.209
Antenna Noise Temperature	47K (20° EI), 46K (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): <i>Rx</i>	35 dB	35 dB
<i>Tx</i>	80 dB	80 dB

**ENVIRONMENTAL**

Wind: <i>Operational Deployed</i>	50+ MPH	50+ MPH
<i>Survival Deployed</i>	75 MPH	75 MPH
<i>Survival Stowed</i>	150 MPH	150 MPH
Temperature: <i>Operational</i>	-40°F to 122°F (-40°C to +50°C)	-40°F to 122°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)
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: <i>Input</i>	100-250V 3A Max	100-250V 3A Max
<i>Running Load</i>	47-63Hz 300W Max	47-63Hz 300W Max
<i>Output</i>	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 and GLONASS	GPS and GLONASS
	Compass +/- 15°	Compass +/- 15°
	Tilt +/- .5°	Tilt +/- .5°