

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 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

COMPLETE GLOBAL COMMUNICATIONS SOLUTIONS

- Touch-screen control unit, only one in the industry
- Automatic satellite acquisition
- Single control and power coax cable
- One button operation, auto-pointing controller acquires Ka-band satellite within minutes
- F-connectors on all coax cables
- Easy maintenance
- Modular design for quick repair
- Supports manual control when required
- Exceeds Mil-spec standards
- Rugged design for harsh environments
- Built in GPS antenna, tilt sensors and electronic compass
- Modem search capable for maximum search accuracy
- Fully-integrated antenna controller
- 2RU rack-mountable controller
- No external PC required
- Remote access
- Out-of-band capable
- Very low 15" (mm) stow height, the lowest in the industry



www.winegard.com

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





PERU
HOMOLOGATION



WX980



WX1200

WX SERIES

GENERAL INFORMATION

Reflector Type	.98 m Glass Fiber	1.2 m .8 F/D Glass Fiber
Optics Offset	Reinforced Polyester SMC	Reinforced Polyester SMC
BUC Supported*	Prime Focus Offset Feed	Prime Focus Offset Feed
Polarization*	15 lbs. / 12" L x 7.75" W x 5.5" H	15 lbs. / 12" L x 7.75" W x 5.5" H
Mount Geometry	Cross-pol	Cross-pol
	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
Rx Interface	Flange Flexible and Twistable Waveguide	Flange Flexible and Twistable Waveguide
Frequency Range: Rx	WR75 Flange	WR75 Flange
Tx	10.95 - 12.75 Ghz	10.95 - 12.75 Ghz
Gain (Midband): Rx	13.75 - 14.50 Ghz	13.75 - 14.50 Ghz
Tx	39.8 dBi	41.5 dBi
VSWR Rx & Tx	41.3 dBi	43 dBi
Beamwidth: Rx	1.3:1	1.3:1
Tx	1.8° (-3 dB), 3.3° (-10 dB)	1.4° (-3 dB), 2.4° (-10 dB)
Radiation Pattern Compliance	1.5° (-3 dB), 2.8° (-10 dB)	1.2° (-3 dB), 2.1° (-10 dB)
Antenna Noise Temperature	FCC § 25.209	FCC § 25.209
Cross Pol Isolation on Axis Rx & Tx (Minimum)	47K (20° EI), 46K (30° EI)	46K (20° EI), 43K (30° EI)
Isolation port to port (Minimum): Rx	30 dB	30 dB
Tx	35 dB	35 dB
	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	GPS
	Compass +/- 15°	Compass +/- 15°
	Tilt +/- .5°	Tilt +/- .5°

***OPTIONS**

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