



High Wind, High Ice Microwave Antennas

Featuring an **extreme radome** that's designed for the harshest conditions



Field-proven performance + extreme radome design = unbeatable resilience

Field-proven to withstand the harshest conditions

RFS' high wind, high ice antennas have been delivering proven performance on mountaintops and other locations in some of the harshest environments in North America for more than a decade. To further enhance their durability and resilience to wind and ice, an extreme radome has been incorporated into the design.

The extreme radome includes a number of design features that cannot be found on other radomes in the market. For example, an extremely tight radome fit all the way around the shroud, a generous overhang and many robust connection points eliminate the flapping and tearing issues that can occur with continuous exposure to high winds. Reinforced radome material, including an additional layer with a protective coating, further increases durability and resilience to snow and ice.

Designed and tested to meet stringent standards

All antenna designs have been structurally analyzed to ensure they meet the requirements for ANSI/TIA-222-H Risk Category II structures and are proven to withstand the following wind and ice combinations:

- 155 mph winds and 1 inch of ice
- 140 mph winds and 2 inches of ice

The antennas also include a unique spun backring design and strategically positioned sway bars to ensure antenna and link stability as conditions worsen.

RFS' rugged design ensures longevity and peace of mind – reduces additional costs and time due to unnecessary tower climbs

Exclusive Features and Benefits

Designed for high wind and ice conditions

- **Tested to ANSI/TIA-222-H Risk Category II standards**
Guarantees extremely robust mechanical construction
- **Extreme radome design**
Eliminates flapping and tearing, increases durability
- **Spun backring and strategically positioned sway bars**
Increases antenna and link stability in harsh conditions
- **Field-upgradeable from single to dual polarization**
Simplifies network evolution

High wind, high ice antennas for any requirements

- 6, 8, 10 and 12 ft sizes
- A wide range of frequency bands, including the commonly used 6 GHz and 11 GHz frequency bands
- Single and dual polarized models with the ability to upgrade from single to dual polarization in the field
- Standard white or optional gray radome color



High Wind / High Ice Extreme Radome Models – Common Frequencies in North America

Frequency Range (GHz)	Sizes (ft)	High Performance Single Polarization*	High Performance Dual Polarization*	Ultra-High Performance Single Polarization*	Ultra-High Performance Dual Polarization*	Swaybar Quantity
5.725 to 6.875	6	DA6-W57ACSQ1E	DAX6-W57ACSQ1E	UA6-W57ACSQ1E	UXA6-W57ACSQ1E	3
	8	DA8-W57ACSQ1E	DAX8-W57ACSQ1E	UA8-W57ACSQ1E	UXA8-W57ACSQ1E	3
	10	DA10-W57ACSQ1E	DAX10-W57ACSQ1E	UA10-W57ACSQ1E	UXA10-W57ACSQ1E	4
	12	DA12-W57ACSQ1E	DAX12-W57ACSQ1E	UA12-W57ACSQ1E	UXA12-W57ACSQ1E	4
5.725 to 7.125	6	DA6-U57ACSQ1E	DAX6-U57ACSQ1E	UA6-U57ACSQ1E	UXA6-U57ACSQ1E	3
	8	DA8-U57ACSQ1E	DAX8-U57ACSQ1E	UA8-U57ACSQ1E	UXA8-U57ACSQ1E	3
	10	DA10-U57ACSQ1E	DAX10-U57ACSQ1E	UA10-U57ACSQ1E	UXA10-U57ACSQ1E	4
	12	DA12-U57ACSQ1E	DAX12-U57ACSQ1E	UA12-U57ACSQ1E	UXA12-U57ACSQ1E	4
5.925 to 6.425	6	DA6-59ACSQ1E	DAX6-59ACSQ1E	UA6-59ACSQ1E	UXA6-59ACSQ1E	3
	8	DA8-59ACSQ1E	DAX8-59ACSQ1E	UA8-59ACSQ1E	UXA8-59ACSQ1E	3
	10	DA10-59ACSQ1E	DAX10-59ACSQ1E	UA10-59ACSQ1E	UXA10-59ACSQ1E	4
	12	DA12-59ACSQ1E	DAX12-59ACSQ1E	UA12-59ACSQ1E	UXA12-59ACSQ1E	4
5.925 to 6.875	6	DA6-W59ACSQ1E	DAX6-W59ACSQ1E	UA6-W59ACSQ1E	UXA6-W59ACSQ1E	3
	8	DA8-W59ACSQ1E	DAX8-W59ACSQ1E	UA8-W59ACSQ1E	UXA8-W59ACSQ1E	3
	10	DA10-W59ACSQ1E	DAX10-W59ACSQ1E	UA10-W59ACSQ1E	UXA10-W59ACSQ1E	4
	12	DA12-W59ACSQ1E	DAX12-W59ACSQ1E	UA12-W59ACSQ1E	UXA12-W59ACSQ1E	4
6.425 to 7.125	6	DA6-65ACSQ1E	DAX6-65ACSQ1E	UA6-65ACSQ1E	UXA6-65ACSQ1E	3
	8	DA8-65ACSQ1E	DAX8-65ACSQ1E	UA8-65ACSQ1E	UXA8-65ACSQ1E	3
	10	DA10-65ACSQ1E	DAX10-65ACSQ1E	UA10-65ACSQ1E	UXA10-65ACSQ1E	4
	12	DA12-65ACSQ1E	DAX12-65ACSQ1E	UA12-65ACSQ1E	UXA12-65ACSQ1E	4
10.7 to 11.7	6	DA6-107ACSQ1E	DAX6-107ACSQ1E	UA6-107ACSQ1E	UXA6-107ACSQ1E	3
	8	DA8-107ACSQ1E	DAX8-107ACSQ1E	UA8-107ACSQ1E	UXA8-107ACSQ1E	3
	10	DA10-107ACSQ1E	DAX10-107ACSQ1E	UA10-107ACSQ1E	UXA10-107ACSQ1E	4
	12	DA12-107ACSQ1E	DAX12-107ACSQ1E	UA12-107ACSQ1E	UXA12-107ACSQ1E	4

*To order a gray (RAL7000) radome, change Q1E to QGE in all of the above | Contact RFS for additional radome options.

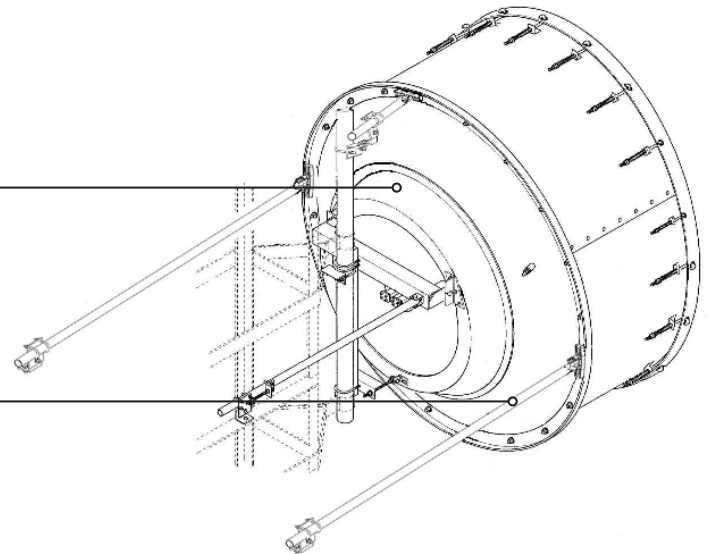
Typical 12 ft High Wind / High Ice Schematic

Advanced Backring & Mounting System

Increased Structural Strength

Additional Strategically Located Sway Bars

Greater Ice & Wind Loading Capability



High Wind / High Ice Model Name Structure**

Antenna Type	Antenna Size	Antenna Frequency	RFS Revision	Flange Options	Mechanical Option	Environment Option	Color Options	Radome Option
UXA	12	- U57	A	C	S	Q	1	E

UXA

12

S

1

E

STYLE AND POLARIZATION	DIAMETER	ALLOWABLE WIND SPEED & ICE COMBINATIONS	COLOR	RADOME
UA Single Pol Ultra High Performance	6 Six Foot	S Antenna survives 155 mph + 1 inch of ice or 140 mph + 2 inches of ice	1 White	E Extreme Radome
UXA Dual Pol Ultra High Performance	8 Eight Foot		G Gray (RAL7000)	
DA Single Pol High Performance	10 Ten Foot			
DAX Dual Pol High Performance	12 Twelve Foot			

**Most common options are shown; additional options are available, contact sales for details