



UXA8-U57ACSQGE

PrimeLine Antenna, Ultra High Performance,
High Cross Polar Discrimination, Dual Polarized, 8 ft

RFS PrimeLine Antennas are designed for all microwave applications that require best RF performance, especially when high cross polar discrimination (XPD) is required.

Tested and field proven ultra-high (ETSI EN 302 217 Class 3 and FCC Class A) electrical performance.

Sizes ranging from 0.6 m (2 ft) to 4.6 m (15 ft), frequencies ranging from 4GHz to 15GHz

Dual-polarized models with high XPD up to 40dB

FEATURES / BENEFITS

- Frequencies range from 4 GHz to 15 GHz with support for one ultra wideband frequency range (5.725-7.125 GHz) to reduce antenna requirements and simplify logistic
- Extremely high XPD performance for complete isolation between the signals in each polarization
- Excellent radiation pattern envelope (RPE), particularly in cross-polar area
- Survive winds up to 200 km/h (125 mph) with standard antenna version, survive winds up to 252 km/h (155 mph) with high wind antenna version
- An optional sway bar adds assurance to antenna stability
- 8 ft (2.4m) to 12 ft (3.7m) diameters can be ordered in split reflector configuration. The split design provides a reduced packaging volume which minimizes shipping cost.

The model UXA8-U57ACSQGE (high wind & high ice version) features :

- Ultra wideband (5.725-7.125GHz) design to cover different applications
- A reinforced mounting structure
- 3 sway bars, strategically located
- A PVC coated radome optimized for areas with high wind and snow
- Survival wind speed up to 250km/h (155mph) with 25mm (1 inch) radial ice or up to 225km/h (140mph) with 55mm (2inches) radial ice
- Antenna and radome in gray color



Antenna with snowradome

Technical features

GENERAL SPECIFICATIONS

Product Type		Point to point antennas
Profile		PrimeLine
Performance		Ultra High, High Cross Polar Discrimination
Polarization		Dual
Antenna Input		CPR137G
Reflector		1-part
Radome		flexible
Antenna color		Gray RAL 7000
Swaybar		3: 3 x (3.0 m x Ø60 mm)



UXA8-U57ACSQGE

PrimeLine Antenna, Ultra High Performance,
High Cross Polar Discrimination, Dual Polarized, 8 ft

ELECTRICAL SPECIFICATIONS

Frequency	GHz	5.725 - 7.125
3dB beamwidth	degrees	1.3
Low Band Gain	dBi	40.6
Mid Band Gain	dBi	41.6
High Band Gain	dBi	42.6
F/B Ratio	dB	77
XPD	dB	40
IPI	dB	45
Max VSWR / R L	VSWR / dB	1.5 (14) @ 5.725 - 5.85 GHz 1.12 (25) @ 5.925 - 7.125 GHz
Regulatory Compliance		ETSI EN 302217 Range 1, class 3 FCC Category A

MECHANICAL SPECIFICATIONS

Diameter	ft (m)	8 (2.4)
Elevation Adjustment	degrees	± 5
Azimuth Adjustment	degrees	± 5
Polarization Adjustment	degrees	± 5
Mounting Pipe Diameter minimum	mm (in)	114 (4.5)
Mounting Pipe Diameter maximum	mm (in)	114 (4.5)
Approximate Weight	kg (lb)	180 (396)
Survival Windspeed	km/h (mph)	252 (155)
Operational Windspeed	km/h (mph)	190 (118)

STRUCTURE

Radome Material		PVC coated fabric
-----------------	--	-------------------

FURTHER ACCESSORIES

optional Swaybar		3: 3 x (3.0 m x Ø60 mm)
Further Accessories		SMA-SKO-UNIVERSAL-L : Universal sway bar fixation kit

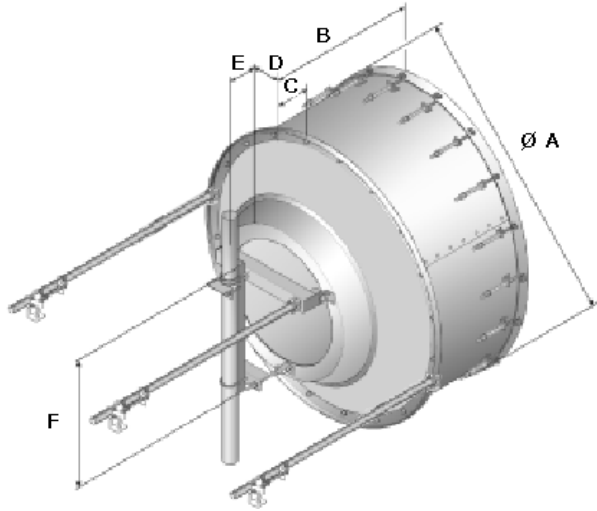
MOUNTOUTLINE

Dimension_A	mm (in)	2616 (103.4)
Dimension_B	mm (in)	1450 (57.1)
Dimension_C	mm (in)	460 (18.1)
Dim_D- 114mm(4.5_in)Pipe	mm (in)	190 (7.5)
Dimension_E	mm (in)	310 (12.3)
Dimension_F	mm (in)	1120 (44.1)



UXA8-U57ACSQGE

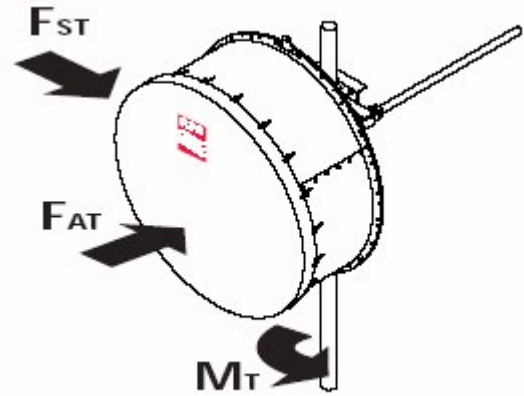
PrimeLine Antenna, Ultra High Performance,
High Cross Polar Discrimination, Dual Polarized, 8 ft



Mount outline High Ice High Wind antenna

WINDLOAD

Fa Axial force max. @ survival wind speed	N (lb)	19344 (4333)
Fs Side force max. @ survival wind speed	N (lb)	9922 (2222)
M Torque maximum @ survival wind speed Nm (ft lb)	Nm (lb ft)	9313 (6875)



External Document Links

- [Complete Antenna installation RPE \(IQ-Link format\)](#)
- [RPE \(PDF format\)](#)
- [RPE \(Pathloss format\)](#)

Notes

listed wind speeds are on "ASD" level