



UXA4-220DZ2

PrimeLine Antenna, Ultra High Performance,
High Cross Polar Discrimination, Dual Polarized, 4 ft

RFS PrimeLine Antennas are designed for all microwave applications that require best RF performance, especially where interference could be an issue.
A choice between tested and validated 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)

Dual-polarized models with the ability to change frequencies in the field in most cases

FEATURES / BENEFITS

- Extremely high XPD performance for complete isolation between the radions in each polarization
- Excellent radiation pattern envelope (RPE), particularly in cross-polar area
- Support for winds up to 200 km/h (125 mph) with high-wind versions that support winds up to 252 km/h (155 mph)
- A single-piece configuration and compact packaging to reduce transportation costs
- Frequencies ranging from 6 GHz to 23 GHz



Antenna

Technical features

GENERAL SPECIFICATIONS

Product Type		Point to point antennas
Profile		PrimeLine
Performance		Ultra High, High Cross Polar Discrimination
Polarization		Dual
Antenna Input		UG-596/U
Reflector		1-part
Radome		flexible
Antenna color		White RAL 9010
Swaybar		1: (1.35 m x Ø33 mm)

ELECTRICAL SPECIFICATIONS

Frequency	GHz	21.2 - 23.6
3dB beamwidth	degrees	0.8
Low Band Gain	dBi	45.5
Mid Band Gain	dBi	46
High Band Gain	dBi	46.4
F/B Ratio	dB	72
XPD	dB	36
IPI	dB	40
Max VSWR / R L	VSWR / dB	1.13 (24.3)
Regulatory Compliance		ETSI EN 302217 Range 3, class 3 FCC Category A



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MECHANICAL SPECIFICATIONS

Diameter	ft (m)	4 (1.2)
Elevation Adjustment	degrees	± 15
Azimuth Adjustment	degrees	± 15
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)	35 (77)
Survival Windspeed	km/h (mph)	252 (155)
Operational Windspeed	km/h (mph)	252 (155)

STRUCTURE

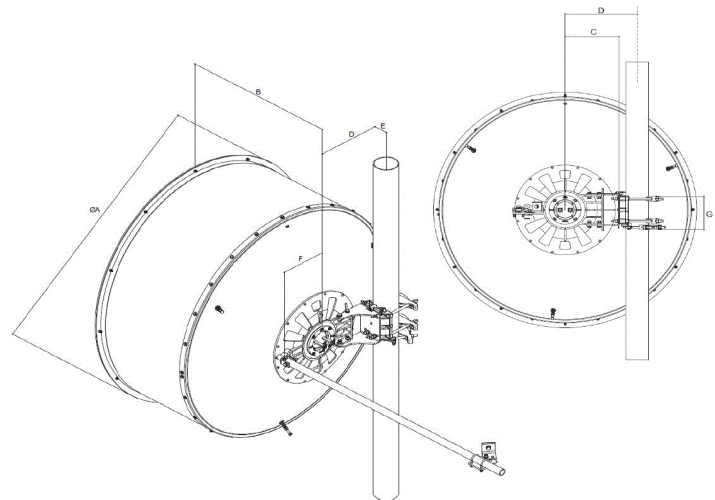
Radome Material	PVC coated fabric
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FURTHER ACCESSORIES

optional Swaybar	1: SMA-SK-4 (1.35 m x Ø33 mm)
Further Accessories	SMA-SKO-UNIVERSAL : Universal sway bar fixation kit

MOUNTOUTLINE

Dimension_A	mm (in)	1313 (51.7)
Dimension_B	mm (in)	793 (31.2)
Dimension_C	mm (in)	248 (9.8)
Dim_D-114mm(4.5_in)Pipe	mm (in)	358 (14.1)
Dimension_E	mm (in)	59 (2.3)
Dimension_F	mm (in)	230 (9.1)
Dimension_G	mm (in)	186 (7.3)



Outline_4ft_High_Perf_Antenna_1D_250

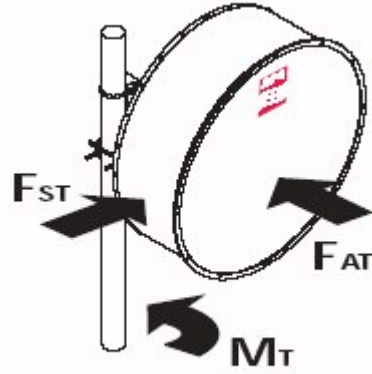


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WINDLOAD

Fa Axial force max. @ survival wind speed	N (lb)	5140 (1155)
Fs Side force max. @ survival wind speed	N (lb)	2547 (573)
M Torque maximum @ survival wind speed Nm (ft lb)	Nm (lb ft)	1648 (1215)



External Document Links

- [Reflector installation](#)
- [Feed installation](#)
- [Mount Installation](#)
- [RPE \(IQ-Link format\)](#)
- [RPE \(PDF format\)](#)
- [RPE \(Pathloss format\)](#)

Notes