



RFS Microwave Antennas are designed for microwave systems in all common frequency ranges from 4 GHz to 15 GHz. Different options of survival windspeeds are available. This allows the use of antennas in areas where extreme wind conditions are normal. The antennas utilise a conventional feed system and are available in three performance classes offering complete flexibility when designing a network. High Performance antennas are ideally suited for systems where a good level of side lobe suppression is required. These antennas are required for use in networks where there is a high interference potential. Antennas are available in 2 ft (0.6m) to 12 ft (3.7m) diameters. The High Performance antennas are available in dual polarised (DAX) as well as in single polarised versions (DA). All antennas include a radome which is specially shaped (2 ft) or flexible (4 to 12 ft) to minimise its impact on the antenna's electrical characteristics.



Antenna

**FEATURES / BENEFITS**

- Field-proven reliability and long life
- Support for winds up to 200 km/h (125 mph) with high-wind versions that support winds up to 252 km/h (155 mph) and an optional sway bar for added assurance in case mistakes are made during installation
- A single-piece configuration and compact packaging to reduce transportation costs
- Frequencies ranging from 4 GHz to 15 GHz with support for two wideband frequency ranges (5.725-6.875 and 7.125-8.5 GHz) to reduce antenna requirements and simplify logistics

**Technical features**

**GENERAL SPECIFICATIONS**

<b>Product Type</b>		Point to point antennas
<b>Profile</b>		TrunkLine
<b>Performance</b>		High
<b>Polarization</b>		Single
<b>Antenna Input</b>		PDR 48
<b>Reflector</b>		1-part
<b>Radome</b>		flexible
<b>Antenna color</b>		White RAL 9010
<b>Swaybar</b>		1: (1.35 m x Ø27 mm)

**ELECTRICAL SPECIFICATIONS**

<b>Frequency</b>	GHz	4.4 - 5
<b>3dB beamwidth</b>	degrees	3.7
<b>Low Band Gain</b>	dBi	32
<b>Mid Band Gain</b>	dBi	32.5
<b>High Band Gain</b>	dBi	33
<b>F/B Ratio</b>	dB	52
<b>XPD</b>	dB	28
<b>Max VSWR / R L</b>	VSWR / dB	1.1 (26.4)
<b>Regulatory Compliance</b>		ETSI EN 302217 Range 1, class 2



**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)	45 (99)
Survival Windspeed	km/h (mph)	200 (125)
Operational Windspeed	km/h (mph)	190 (118)

**STRUCTURE**

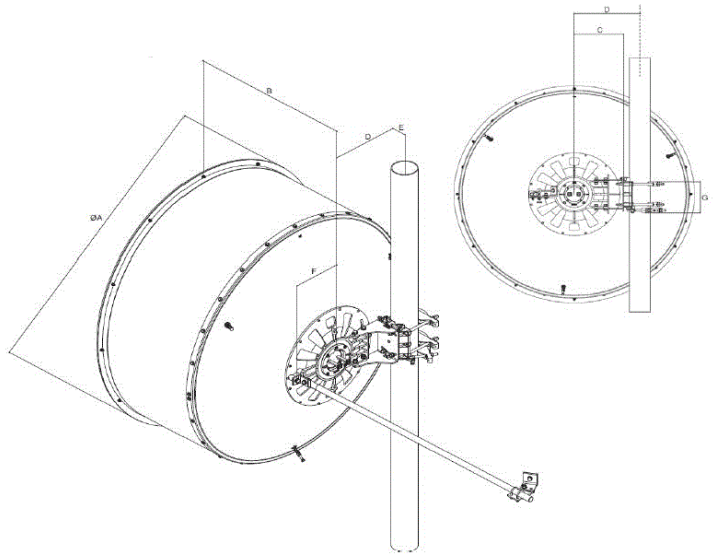
Radome Material	PVC coated fabric
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**FURTHER ACCESSORIES**

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

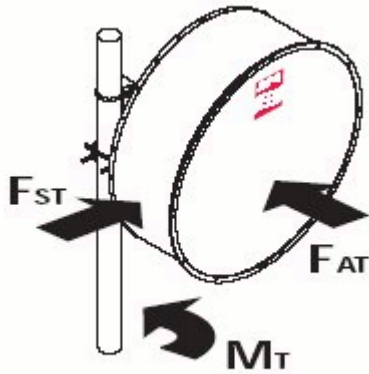
**MOUNTOUTLINE**

Dimension_A	mm (in)	1313 (51.7)
Dimension_B	mm (in)	816 (32.1)
Dimension_C	mm (in)	248 (9.8)
Dim_D-114mm(4.5_in)Pipe	mm (in)	365 (14.4)
Dimension_E	mm (in)	115 (4.5)
Dimension_F	mm (in)	365 (14.4)



**WINDLOAD**

Fs Side force max. @ survival wind speed	N (lb)	1630 (365)
Fa Axial force max. @ survival wind speed	N (lb)	3290 (737)
M Torque maximum @ survival wind speed Nm (ft lb)	Nm (lb ft)	1055 (784)



**PACKAGING**

Packaging type		Cardboard
Packaging Width	cm (inch)	135 (53.1)
Packaging Length	cm (inch)	135 (53.1)
Packaging Height	cm (inch)	81 (31.9)
Packaging Volume	m <sup>3</sup> (ft <sup>3</sup> )	1.48 (52.3)
Packaging Weight gross	kg (lb)	105 (232)

Package dimensions valid for delivery from European factory. Deliveries from other factories might differ.

**External Document Links**

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

**Notes**

Only on special request available. For further information please contact your local sales representative.