



RFS TrunkLine Antennas are designed for microwave backbone networks, long distance, high capacity links  
 A choice between tested and validated ultra-high (ETSI EN 302 217 Class 3 and FCC Class A) electrical performance or high (ETSI Class 2 and FCC Class B) performance  
 Sizes ranging from 1.8 m (6 ft) to 4.6 m (15 ft)  
 Single- and dual-polarized models with the ability to upgrade from single to dual polarization and change frequencies in the field in most cases

**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

The design of this high wind high ice antenna model features :

- a reinforced mounting structure
- 3 sway bars, strategically located
- a PVC coated radome optimized for areas with high wind and snow appearance

This specific design allow the antenna to survive in High Wind and High Ice climate and withstand :

- a 250km/h (155mph) survival wind speed with 25mm (1 inch) of radial ice
- a 225km/h (140mph) survival wind speed with 55mm (2 inches) of radial ice



Antenna with Extreme Radome

**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>		CPR137G
<b>Reflector</b>		1-part
<b>Radome</b>		flexible
<b>Antenna color</b>		White RAL 9010
<b>Swaybar</b>		3: (3.0 m x Ø60 mm)

**ELECTRICAL SPECIFICATIONS**

<b>Frequency</b>	GHz	6.425 - 7.125
<b>3dB beamwidth</b>	degrees	1.3
<b>Low Band Gain</b>	dBi	41.9
<b>Mid Band Gain</b>	dBi	42.3
<b>High Band Gain</b>	dBi	42.8
<b>F/B Ratio</b>	dB	66
<b>XPD</b>	dB	30
<b>Max VSWR / R L</b>	VSWR / dB	1.06 (30.7)
<b>Regulatory Compliance</b>		ETSI EN 302217 Range 1, class 2 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**

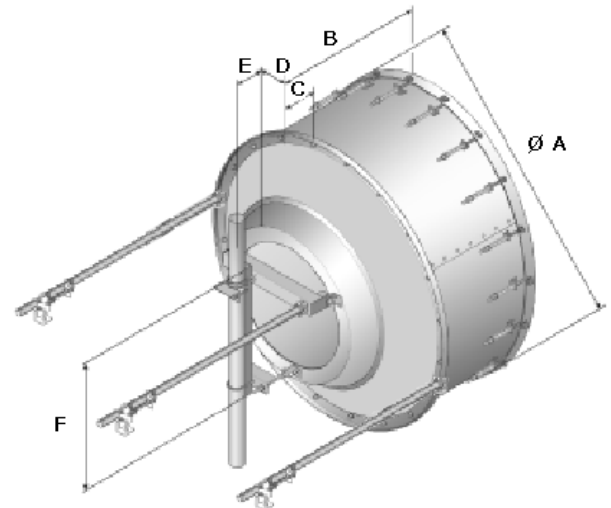
Radome Material		PVC coated fabric
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**FURTHER ACCESSORIES**

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

**MOUNTOUTLINE**

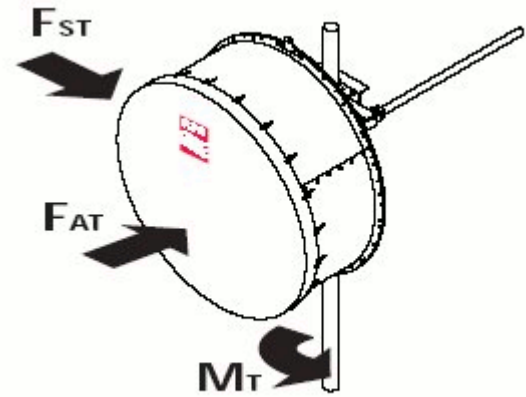
Dimension_A	mm (in)	2616 (103.4)
Dimension_B	mm (in)	1450 (57.1)
Dimension_C	mm (in)	460 (18.1)
Dim_D-114mm(4.5_in)Pipe	mm (in)	190 (7.5)
Dimension_E	mm (in)	310 (12.3)
Dimension_F	mm (in)	1120 (44.1)





**WINDLOAD**

<b>F<sub>s</sub> Side force max. @ survival wind speed</b>	N (lb)	9222 (2222)
<b>M Torque maximum @ survival wind speed Nm (ft lb)</b>	Nm (lb ft)	9313 (6875)
<b>F<sub>a</sub> Axial force max. @ survival wind speed</b>	N (lb)	19344 (4333)



**External Document Links**

- [Antenna Installation Instruction](#)
- [RPE \(IQ-Link format\)](#)
- [RPE \(PDF format\)](#)
- [RPE \(Pathloss format\)](#)

**Notes**

- listed wind speeds are on "ASD" level
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