



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



Antenna

**Technical features**

**GENERAL SPECIFICATIONS**

|                      |  |                         |
|----------------------|--|-------------------------|
| <b>Product Type</b>  |  | Point to point antennas |
| <b>Profile</b>       |  | TrunkLine               |
| <b>Performance</b>   |  | High                    |
| <b>Polarization</b>  |  | Dual                    |
| <b>Antenna Input</b> |  | PDR 40                  |
| <b>Reflector</b>     |  | 3-parts                 |
| <b>Radome</b>        |  | flexible                |
| <b>Antenna color</b> |  | White RAL 9010          |
| <b>Swaybar</b>       |  | 4: (3.0 m x Ø60 mm)     |

**ELECTRICAL SPECIFICATIONS**

|                              |           |   |
|------------------------------|-----------|---|
| <b>Frequency</b>             | GHz       | 3.6 - 4.2   |
| <b>3dB beamwidth</b>         | degrees   | 1.1   |
| <b>Low Band Gain</b>         | dBi       | 42  |
| <b>Mid Band Gain</b>         | dBi       | 42.7  |
| <b>High Band Gain</b>        | dBi       | 43.3  |
| <b>F/B Ratio</b>             | dB        | 65  |
| <b>XPD</b>                   | dB        | 30  |
| <b>IPI</b>                   | dB        | 35  |
| <b>Max VSWR / R L</b>        | VSWR / dB | 1.06 (30.7)                                       |
| <b>Regulatory Compliance</b> |           | ETSI EN 302217 Range 1, class 2<br>FCC Category A |



**MECHANICAL SPECIFICATIONS**

|                                |            |            |
|--------------------------------|------------|------------|
| Diameter                       | ft (m)     | 15 (4.6)   |
| Elevation Adjustment           | degrees    | ± 5        |
| Azimuth Adjustment             | degrees    | ± 5        |
| Polarization Adjustment        | degrees    | ± 5        |
| Mounting Pipe Diameter minimum | mm (in)    | 219 (8.6)  |
| Mounting Pipe Diameter maximum | mm (in)    | 219 (8.6)  |
| Approximate Weight             | kg (lb)    | 750 (1650) |
| Survival Windspeed             | km/h (mph) | 200 (125)  |
| Operational Windspeed          | km/h (mph) | 190 (118)  |

**STRUCTURE**

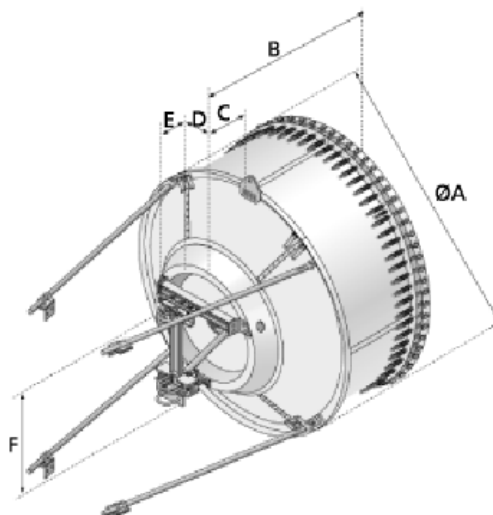
|                 |                   |
|-----------------|-------------------|
| Radome Material | PVC coated fabric |
|-----------------|-------------------|

**FURTHER ACCESSORIES**

|                     |   |
|---------------------|---|
| optional Swaybar    | 0: (not applicable)                                   |
| Further Accessories | SMA-SKO-UNIVERSAL-L : Universal sway bar fixation kit |

**MOUNTOUTLINE**

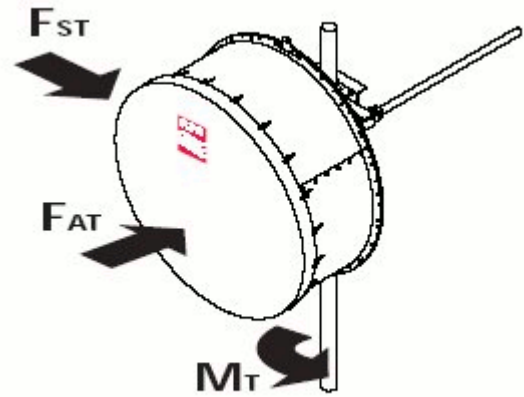
|                             |         |             |
|-----------------------------|---------|-------------|
| Dimension_A                 | mm (in) | 4757 (188)  |
| Dimension_B                 | mm (in) | 2360 (93.3) |
| Dimension_C                 | mm (in) | 855 (33.8)  |
| Dim_D-<br>219mm(8.5_in)Pipe | mm (in) | 294 (11.6)  |
| Dimension_E                 | mm (in) | 455 (17.9)  |
| Dimension_F                 | mm (in) | 1690 (66.8) |





**WINDLOAD**

|   |            |               |
|---|------------|---------------|
| <b>F<sub>s</sub> Side force max. @ survival wind speed</b>  | N (lb)     | 21000 (4704)  |
| <b>M Torque maximum @ survival wind speed Nm (ft lb)</b>    | Nm (lb ft) | 32750 (24500) |
| <b>F<sub>a</sub> Axial force max. @ survival wind speed</b> | N (lb)     | 42430 (9504)  |



**External Document Links**

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

**Notes**