



RFS Class 4 and advanced Class 3 antennas are designed to provide the market's best RF performance and allow mobile operators to deploy new microwave links even in ultra-dense areas where high levels of interference are present.

- Available from 6 to 42 GHz frequency in both single (SL/UL) and dual polarization (SLX/ULX) versions
- Support for winds up to 250 km/h (155 mph) and even 320 km/h (195 mph) for 0.3m antennas diameter
- An optional sway bar for antennas 1 m (3ft) and larger is available

**FEATURES / BENEFITS**

- Increase link capacity of the network
- Improved radiation patterns for ETSI Class 4 providing better performance
- Less interference and higher carrier-to-interference ratio
- Allows radios to operate at higher modulation levels
- Minimize the total cost of ownership
- Improved network efficiency
- Facilitates better re-use of a frequency channel
- In-field upgrades – flexible feed design
- Upgrade from single to dual polarization in the field



**Technical features**

**GENERAL SPECIFICATIONS**

|                      |  |                         |
|----------------------|--|-------------------------|
| <b>Product Type</b>  |  | Point to point antennas |
| <b>Profile</b>       |  | SerenityLine            |
| <b>Performance</b>   |  | Super High              |
| <b>Polarization</b>  |  | Dual                    |
| <b>Antenna Input</b> |  | CPR137G                 |
| <b>Reflector</b>     |  | 1-part                  |
| <b>Radome</b>        |  | Flexible, White color   |
| <b>Antenna color</b> |  | White RAL 9010          |
| <b>Swaybar</b>       |  | 1: 2.0 m x Ø60 mm       |

**ELECTRICAL SPECIFICATION**

|                              |           |  |
|------------------------------|-----------|--|
| <b>Frequency</b>             | GHz       | 5.925 - 7.125  |
| <b>3dB beamwidth</b>         | degrees   | 1.7  |
| <b>Low Band Gain</b>         | dBi       | 38.5   |
| <b>Mid Band Gain</b>         | dBi       | 39.2   |
| <b>High Band Gain</b>        | dBi       | 40.4   |
| <b>F/B Ratio</b>             | dB        | 76   |
| <b>XPD</b>                   | dB        | 40 @ boresight<br>36 @ other areas                               |
| <b>IPI</b>                   | dB        | 40   |
| <b>Max VSWR / R L</b>        | VSWR / dB | 1.1 (26)   |
| <b>Regulatory Compliance</b> |           | ETSI EN 302217 Range 1 Class 4, XPD Category 3<br>FCC Category A |



**MECHANICAL SPECIFICATIONS**

|                                |            |           |
|--------------------------------|------------|-----------|
| Diameter                       | ft (m)     | 6 (1.8)   |
| 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) |
| Survival Windspeed             | km/h (mph) | 200 (125) |
| Operational Windspeed          | km/h (mph) | 190 (118) |
| Approximate Weight             | kg (lb)    | 110 (242) |

**STRUCTURE**

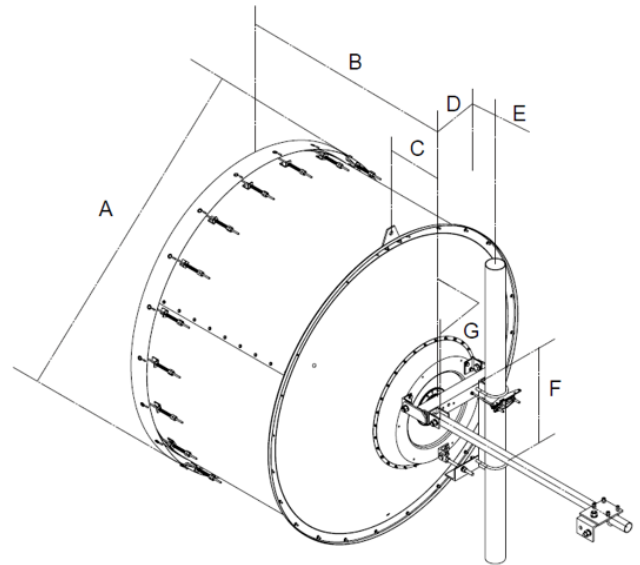
|                 |                   |
|-----------------|-------------------|
| Radome Material | PVC coated fabric |
|-----------------|-------------------|

**OTHER ACCESSORIES**

|                     |   |
|---------------------|---|
| optional Swaybar    | 1: SMA-SK-60-2000A (2.0 m x Ø60 mm)                   |
| Further Accessories | SMA-SKO-UNIVERSAL-L : Universal sway bar fixation kit |

**MOUNT OUTLINE**

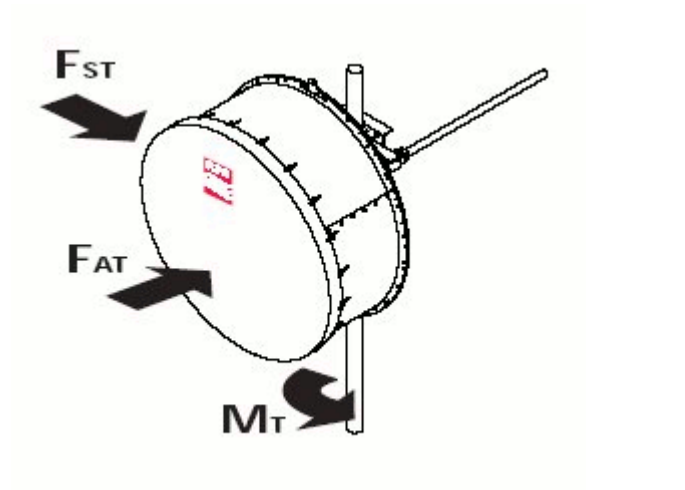
|                             |         |             |
|-----------------------------|---------|-------------|
| Dimension_A                 | mm (in) | 2000 (79)   |
| Dimension_B                 | mm (in) | 1495 (58.9) |
| Dimension_C                 | mm (in) | 364 (14.3)  |
| Dim_D-<br>114mm(4.5_in)Pipe | mm (in) | 175 (6.9)   |
| Dimension_E                 | mm (in) | 283 (11.1)  |
| Dimension_F                 | mm (in) | 590 (23.2)  |
| Dimension_G                 | mm (in) | 306 (12)    |





**WINDLOAD**

|   |            |             |
|---|------------|-------------|
| <b>F<sub>s</sub> Side force max. @ survival wind speed</b>  | N (lb)     | 4667 (1049) |
| <b>F<sub>a</sub> Axial force max. @ survival wind speed</b> | N (lb)     | 7527 (1692) |
| <b>M Torque maximum @ survival wind speed Nm (ft lb)</b>    | Nm (lb ft) | 6554 (4855) |



**External Document Links**

- [Antenna Installation](#)
- [RF interface installation](#)
- [RPE \(IQ-Link format\)](#)
- [RPE \(PDF format\)](#)
- [RPE \(pathloss format\)](#)

**Notes**