



**UXA8-127AB4**

PrimeLine Antenna, Ultra High Performance,  
High Cross Polar Discrimination, Dual Polarized, 8 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) and an optional sway bar for added assurance in case mistakes are made during installation
- A single-piece or a split-reflector configuration and compact packaging to reduce transportation costs
- 8 ft (2.4m) to 12 ft (3.7m) diameters can be ordered in split reflector configuration too. The split design provides a reduced packaging volume which minimises shipping cost.
- The expected degradation of the XPD for split design reflectors is less than 2 dB due to the special method of reassembling the reflector on site.
- Frequencies ranging from 4 GHz to 15 GHz with support for one ultra wideband frequency range (5.725-7.125 GHz) to reduce antenna requirements and simplify logistic



Antenna

**Technical features**

**GENERAL SPECIFICATIONS**

|               |  |   |
|---------------|--|---|
| Product Type  |  | Point to point antennas                     |
| Profile       |  | PrimeLine                                   |
| Performance   |  | Ultra High, High Cross Polar Discrimination |
| Polarization  |  | Dual  |
| Antenna Input |  | PBR 120                                     |
| Reflector     |  | 2-parts                                     |
| Radome        |  | flexible                                    |
| Antenna color |  | White RAL 9010                              |
| Swaybar       |  | 1: (3.0 m x Ø60 mm)                         |

**ELECTRICAL SPECIFICATIONS**

|                       |           |   |
|-----------------------|-----------|---|
| Frequency             | GHz       | 12.7 - 13.25                                      |
| 3dB beamwidth         | degrees   | 0.7   |
| Low Band Gain         | dBi       | 47.4  |
| Mid Band Gain         | dBi       | 47.5  |
| High Band Gain        | dBi       | 47.7  |
| F/B Ratio             | dB        | 75  |
| XPD                   | dB        | 40  |
| IPI                   | dB        | 45  |
| Max VSWR / R L        | VSWR / dB | 1.1 (26.4)  |
| Regulatory Compliance |           | ETSI EN 302217 Range 1, class 3<br>FCC Category A |



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**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) | 200 (125) |
| Operational Windspeed          | km/h (mph) | 190 (118) |

**STRUCTURE**

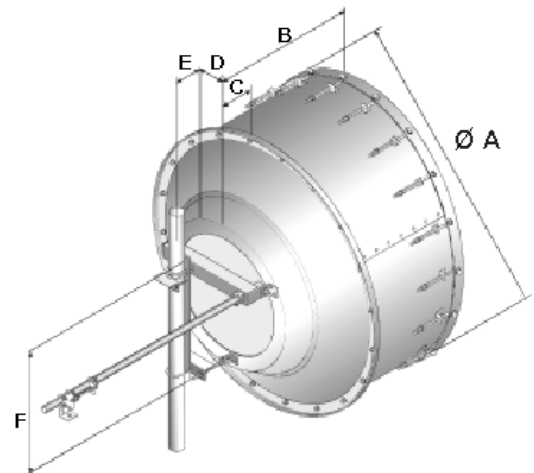
|                 |                   |
|-----------------|-------------------|
| Radome Material | PVC coated fabric |
|-----------------|-------------------|

**FURTHER ACCESSORIES**

|                     |  |
|---------------------|--|
| optional Swaybar    | 1: SMA-SK-60-3000A (3.0 m x Ø60 mm)  |
| Further Accessories | SMA-WK-8 : Wind Kit<br>SMA-SKO-UNIVERSAL-L : Universal sway bar 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-<br>114mm(4.5_in)Pipe | mm (in) | 190 (7.5)    |
| Dimension_E                 | mm (in) | 310 (12.3)   |
| Dimension_F                 | mm (in) | 1120 (44.1)  |





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**WINDLOAD**

|  |            |              |
|--|------------|--------------|
| <b>Fa Axial force max. @ survival wind speed</b>         | N (lb)     | 12380 (2773) |
| <b>Fs Side force max. @ survival wind speed</b>          | N (lb)     | 6350 (1422)  |
| <b>M Torque maximum @ survival wind speed Nm (ft lb)</b> | Nm (lb ft) | 5960 (4400)  |



**External Document Links**

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

**Notes**