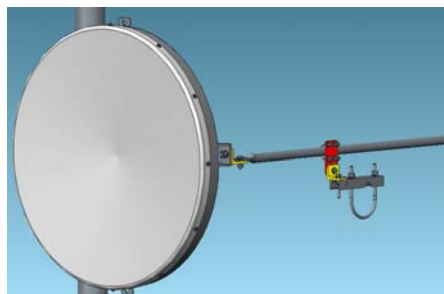


Antenna Product Specifications

SLG0952SS27N

0.9m High Performance Low Profile Antenna, dual-polarized, 5.25÷5.85 GHz



CHARACTERISTIC

General Specifications

Antenna Type	Ultra High Performance Low Profile Antenna, Dual-Polarized Antenna
Diameter, nominal	0.9m / 3ft
Polarization	Dual
Reflector Construction	One-piece reflector
Antenna connector	N-female
Antenna Color	RAL7035
Radome Color	RAL7047
Radome Material Description	ABS

Electrical Specifications

Frequency	5.25÷5.85 GHz
Gain, Top	31.4 dBi
Gain, Mid	30.9 dBi
Gain, Low	30.5 dBi
Front-to-Back Ratio	52 dB
Cross Polarization Discrimination (XPD)	30 dB
Beamwidth	4.1 °
Isolation	35 dB
VSWR	1.5
Return Loss	14 dB
Regulatory Compliance	ETSI EN 302 217 Range 1 Class 2

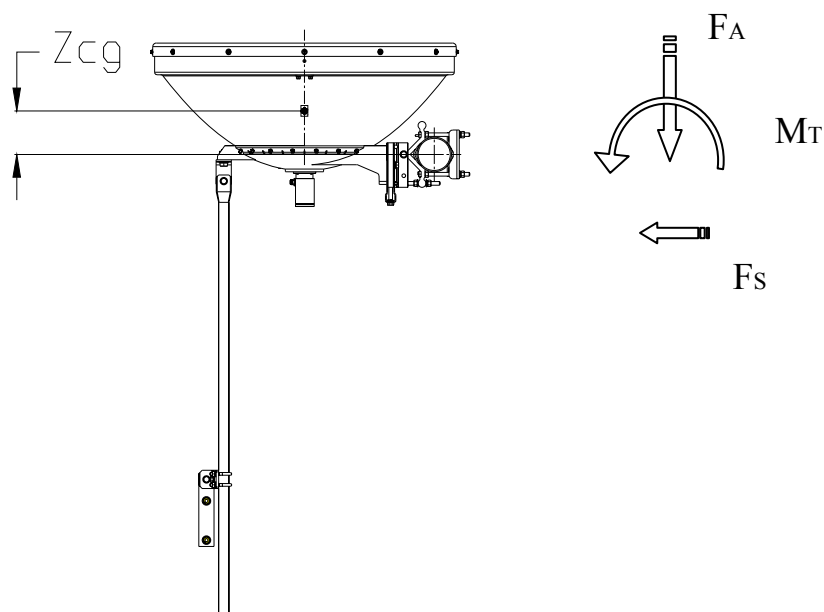
Mechanical Specification

Wind Velocity Operational	162km/h
Wind Velocity Survival Rating	250km/h
Fine Azimuth Adjustment	Coarse 360° Fine $\pm 15^\circ$
Fine Elevation Adjustment	Fine $\pm 20^\circ$
Mounting Pipe Diameter	$\Phi 114$ mm
Ice-load	25.4 mm
Operational Temperature	$-45 \div +75$ °C
Side Struts, Included	1
Net Weight	24.9kg

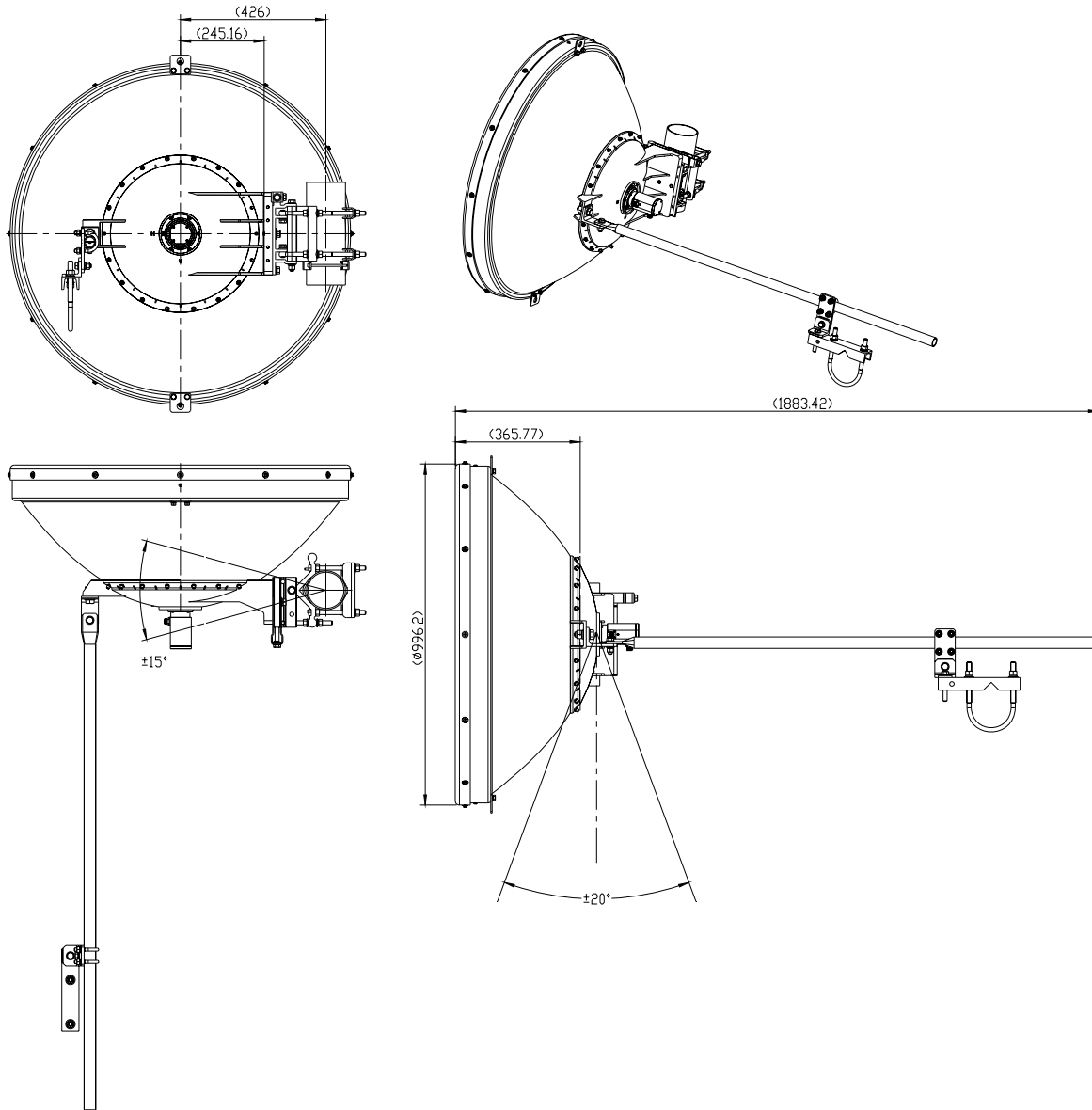
Wind Forces at Wind Velocity Survival Rating

Axial Force(F_A)	2980 N
Side Force(F_S)	1470 N
Twisting Moment(M_T)	1305 N•m
Zcg without Ice	48 mm
Zcg with 1"(25.4mm) Ice	99 mm
Weight with 1"(25.4mm) Ice	59.2 kg

Wind Forces at Wind Velocity Survival Rating Image



Antenna Dimensions and Mounting Information



Fine Azimuth Adjustment

Fine Elevation Adjustment

Mechanical Torque

Diameter of screw (mm)	8	10	12	14	16
Torque Value (N•m)	11.3	21.9	38.2	62.5	93.1

RoHS Compliance

This product and its packaging are compliant to the DIRECTIVE 2002/95/EC of the EUROPEAN PARLIAMENT and of the COUNCIL of 27 January 2003 (RoHS) on the restriction of the use of hazardous substances as defined on RoHS Directive.

Footnotes

Axial Force (FA)	Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.
Cross Polarization Discrimination (XPD)	The stated unit is dB. It is refer to the difference of levels between co-polar and cross-polar within range of 3dB BW.
Front to Back Ratio	It refers to the ratio between peak level and the lowest back lobe at $180^{\circ} \pm 60^{\circ}$; The F/B Ratio of existing products are unable to exceed 2dB as against stated values unless other specific declarations.
Gain, Mid Band	It denotes the gain of centre frequency in operated frequency band. The average value of stated three frequencies at mid-band as well as bottom and top frequency bands is gain of antenna.
Half-Power BW	Denote the nominal total width of main beam at the -3dB points.
Operating Frequency Band	Bands correspond with ITU-R recommendations or common allocations used throughout the world. Other ranges can be accommodated on.
Packing	Standard packing is suitable for export. Antennas are shipped as standard in totally recyclable material.
Radiation Pattern Envelope Reference (RPE)	Radiation patterns determine an antenna's ability to discriminate against unwanted signals under conditions of radio congestion. Radiation patterns are dependent on antenna series, size, and

Return Loss	frequency. The figure that indicates the proportion of radio waves incident upon the antenna that are rejected as a ratio of those that are accepted.
Side Force (FS)	Maximum axial forces exerted on support structures by side struts as a result of a 240 km/h wind from the most critical direction and extreme angle permitted. The forces are a component of, not in addition to, the maximum forces specified above.
Twisting Moment (MT)	Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.
VSWR	Refer to the maximum Voltage Standing Wave Ration in frequency band of operation.
Wind Velocity Operational	The antenna axis deflection is less than one third of the half power beam width at the highest frequency which occurs.
Wind Velocity Survival Rating	The antenna sub-system will survive the specified survival wind speed without any permanent deformation or change of shape.