Antenna Product Specifications

SLU0611SS

0.6m Ultra High Performance Low Profile Antenna, dual-polarized, 10.7÷11.7 GHz



CHARACTERISTIC

General Specifications

Antenna Type Ultra High Performance Low Profile Antenna,

Dual-Polarized Antenna

Diameter, nominal 0.6m / 2ft Polarization Dual

Reflector Construction One-piece reflector

Antenna Color RAL7035
Radome Color RAL7047
Radome Material Description ABS

Electrical Specifications

Frequency 10.7÷11.7 GHz

Gain, Top 35.0 dBi 34.3 dBi Gain, Mid 33.6 dBi Gain, Low Front-to-Back Ratio 61 dB Cross Polar Discrimination (XPD) 30 dB 3.3 ° Beamwidth **VSWR** 1.30 ISO 35dB Return Loss 17.69 dB

Regulatory Compliance ETSI EN 302 217 Range 1 Class 3

Mechanical Specification

Wind Velocity Operational 162km/h Wind Velocity Survival Rating 250km/h

Fine Azimuth Adjustment Coarse360° Fine ±15° Fine Elevation Adjustment Coarse ±25° Fine ±15°

Mounting Pipe Diameter Φ51÷Φ114 mm

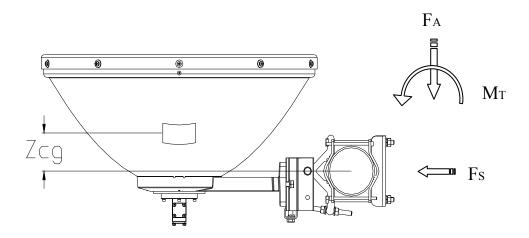
Ice-load25.4 mmOperational Temperature $-45 \div +75 \degree$

Side Struts, Included 0
Net Weight 13.4kg

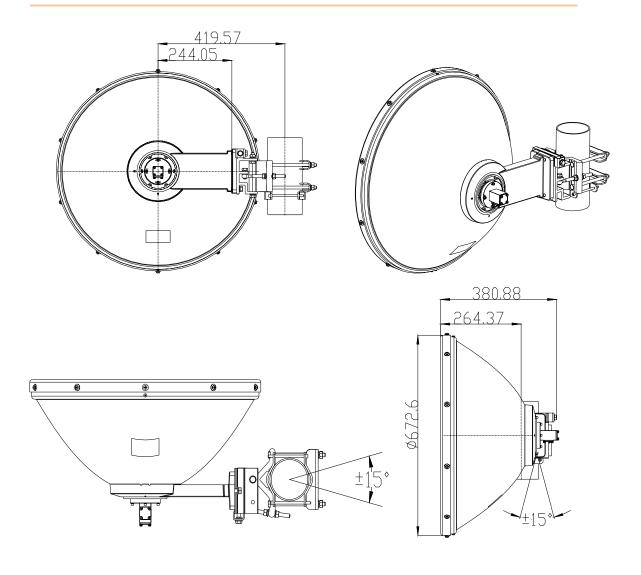
Wind Forces at Wind Velocity Survival Rating

Axial Force(FA) 1055 N
Side Force(FS) 679 N
Twisting Moment(MT) 443 N • m
Zcg without Ice 67mm
Zcg with 1"(25.4mm) Ice 99mm
Weight with 1"(25.4mm) Ice 21.9 kg

Wind Forces at Wind Velocity Survival Rating Image



Antenna Dimensions and Mounting Information



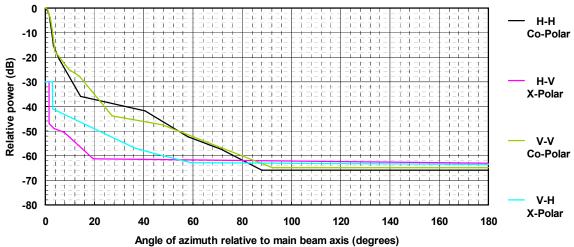
Fine Azimuth Adjustment

Fine Elevation Adjustment

Mechanical Torque

Diameter of screw4 mm10 mmTorque Value0.9 N • m22 N • m

Radiation Pattern Envelope Reference (RPE)



Compliance To ETSI EN 302 217-4-2V 1.3.1 Range1, Class3

н-н		H-V		•	V-V		V-H	
Angle	dB	Angle	dB	Angle	dB	Angle	dB	
0	0	0	-30	0	0	0	-30	
0.36	-0.14712	1.45	-30	0.18	-0.02405	2.79	-30	
1.08	-1.3582	1.63	-46.937	0.54	-0.26964	2.97	-40.982	
1.44	-2.4673	3.6	-48.885	0.72	-0.49159	36.36	-56.947	
1.8	-3.9686	7.65	-50.46	0.9	-0.78646	45.54	-59.368	
2.16	-5.8896	19.53	-61.229	1.26	-1.5893	59.22	-62.917	
2.88	-11.386	180	-63.158	1.62	-2.6938	180	-63.53	
3.24	-15.422			1.98	-4.1164			
5.67	-20.829			2.88	-9.0834			
14.31	-35.844			3.96	-17.424			
40.41	-41.671			9.45	-24.774			
57.96	-52.259			13.95	-27.7			
71.55	-57.435			27.18	-43.835			
88.02	-65.881			47.34	-47.506			
180	-65.881			57.33	-51.162			
				92.21	-64.994			
				180	-64.994			

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	The stated unit is dB. It is refer to the difference of				
Polarization	levels between co-polar and cross-polar within				
Discrimination (XPD)	range of 3dB BW.				
Front to Back Ratio	It refers to the ratio between peak level and the				
	lowest back lobe at $180^{\circ}\pm60^{\circ}$; 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				
Cam, ma Dana	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.				
D 11	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	Radiation patterns determine an antenna's ability				
Reference (RPE)	to discriminate against unwanted signals under				
,	conditions of radio congestion. Radiation patterns				
	are dependent on antenna series, size, and				

frequency.

Return Loss 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.