

ESBANT1L1Y90

4-Port 1L1H Antenna 698-960/1710-2690MHz

90° 16/17dBi 2.5m

E-Tilt: 2-12°/2-12°, Integrated RCU

Electrical Specifications				
Frequency Range(MHz)	698~960 (R1)			
	698~806	790~894	880~960	
Polarization	±45°			
Electrical Downtilt(°)	2-12, Independently continuously adjustable			
Gain (dBi)	15±0.8	15.5±0.8	15.9±0.8	
First upper Side Lobe Suppression (dB)	>14			
Horizontal 3dB Beam Width (°)	86±5	86±5	86±5	
Vertical 3dB Beam Width(°)	8.7±0.9	7.8±0.8	7.2±0.8	
Front to Back Ratio 180°±30° (dB)	>20	>20	>21	
CPR at Boresight(dB)	>13			
Frequency Range(MHz)	1710~2690 (Y1)			
	1710~1920	1920~2170	2300~2490	2490~2690
Polarization	±45°			
Electrical Downtilt(°)	2-12, Independently continuously adjustable			
Gain (dBi)	16.8±0.9	16.5±0.9	16.8±1	17.2±1.1
First upper Side Lobe Suppression (dB)	>14			
Horizontal 3dB Beam Width (°)	85±9	80±8	75±8	70±5
Vertical 3dB Beam Width(°)	7.4±0.9	6.6±0.9	5.8±0.8	5.4±0.8
Front to Back Ratio 180°±30° (dB)	>24	>24	>24	>24
CPR at Boresight(dB)	>13			
VSWR	≤1.5			
Isolation (dB)	≥24			
Intermodulation IM3 (dBc)	≤ -150(2 x 43 dBm carrier)			
Max. power per port(W)	200			
Impedance (Ω)	50			
Grounding	DC Ground			
Values based on NGMN recommendations on Base Station Antenna Standards_v12 (BASTA_v12)				

Mechanical Specifications

RET type	Integrated RET (AISG2.0/3GPP)
AISG Connectors (1 in and 1 out)	2x8 pin (in: Male; out: Female)
Connector	4 x 4.3-10 Female, Bottom
Antenna dimensions (H x W x D) (mm)	2500x320x140
Packing dimensions (H x W x D)(mm)	2740x410x265
Antenna weight (kg)	21.5/26 (clamps incl.)
Diameter of installation pole (mm)	Φ50 ~Φ115
Mechanical Tilt (°)	0~10
Radome material	Fiberglass
Radome color	Grey
Operational temperature (°C)	-40 to +65
Wind load at 42m/s (N)	776/159/909 (Frontal/Lateral/Rear side)
Max. operational wind speed (km/h)	200

Layout and Pattern

Connector Position:



R1: 698-960MHz
 Y1: 1710-2690MHz;

Configuration Types:



RET S/N:
 HXxxx-R1-xx.....;
 HXxxx-Y1-xx.....;

Pattern sample for reference:

