DENGYO

Base Station Antennas

Type SAW0626-01

Frequency Range	698-803x1 880-960x1 1710-2690x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	L: 2° - 14° H: 2° - 12°

Electrical Specifications					
Frequency Range (MHz)	698~803(R2)	880~960(R1)	1710~2690 (x2) (Y1,Y2)		
			1710~2170	2170~2490	2490~2690
Polarization	±45°		±45°		
Gain (dBi)	13.5	14	16.2	16.5	16.8
Horizontal Pattern					
Half-Power Beamwidth (deg)	66	63	60	55	58
Front-to-Back Ratio	≥23dB	≥25dB	≥25dB	≥25dB	≥25dB
Vertical Pattern					
Half-Power Beamwidth (deg)	16	13	7	6	5
Electrical Downtilt Range	See options below				
1st Upper Sidelobe Suppression	2° … 8°… 14° 15 … 14 … 12		2° … 8°… 12° 15 … 15 … 14		
VSWR / Return Loss	≤ 1.5/≤ -14dB				
In-Band Isolation Port to Port	≥25dB				
Intermodulation (IMD3)	≤ -150dBc (2x43dBm carrier)				
Max. Power per Input	200 W (at 50 °C ambient temperature)				
Impedance	50 Ω				
Lightning Protection	DC ground				

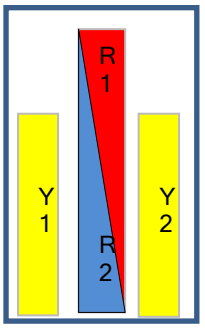
Note: All the values are according to NGMN Alliance BTS Standards calculating commendation.

Mechanical Specifications	
Connector	8 x 4.3-10 DIN(F)
Connector Position	Bottom
Radome Material	Fiberglass
Radome Color	Gray
Operating Temperature	-40 °C~65 °C
Humidity	95% RH@+30 °C
Rated Wind Speed	200 km/h, 125 mph
Rated Wind Loading (Rear)	636 N@ 150 km/h
Mounting Hardware	Φ50 ~ Φ115 mm
Antenna Weight	21 Kg
Packing Weight	28.5 Kg
Antenna Size (LxWxH)	1550 x 350 x 190mm
Packing Size (LxWxH)	1808 x 460 x 352 mm

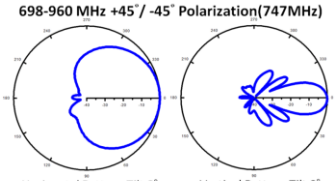
RET Specifications	
Input voltage range	10-30 V
Power Consumption	< 1 watt (standby)
Protocols Compliant	3GPP / AISG 2.0 / AISG 1.1

Electrical Angle Tilt Range	
2E2C	L: 2° ~ 14°; H: 2° ~ 12°

Electrical Tilt adjustment
1 AISG M/F interface per antenna (daisy chain inside) _Independent Tilting

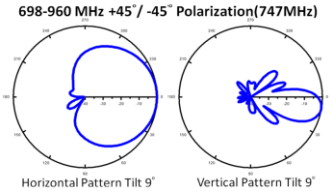


698-960 MHz +45°/ -45° Polarization(747MHz)



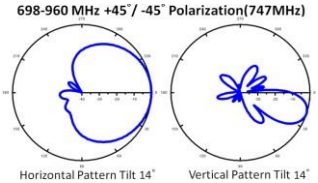
Horizontal Pattern Tilt 2° Vertical Pattern Tilt 2°

698-960 MHz +45°/ -45° Polarization(747MHz)



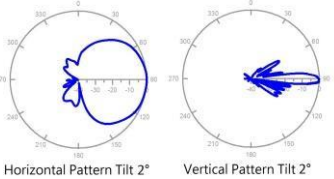
Horizontal Pattern Tilt 9° Vertical Pattern Tilt 9°

698-960 MHz +45°/ -45° Polarization(747MHz)



Horizontal Pattern Tilt 14° Vertical Pattern Tilt 14°

1710-2690 MHz +45° / -45° Polarization (2170MHz)



Horizontal Pattern Tilt 2° Vertical Pattern Tilt 2°