

Base Station Antenna

6-ports 1710-2690 / 3400-5000 / 3400-5000 MHz 65°, 17 / 17 / 17 dBi 5°-15° / 5°-15° / 5°-15° Tilt Antenna
With 2 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		1710-2690				2x3400-5000	
		1710-1920	1920-2180	2300-2400	2400-2690	3400-4100	4500-5000
Polarization		±45°					
Horizontal 3dB Beamwidth(°)		75±10				65±10	
Vertical 3dB Beamwidth(°)		6.5	6	5.5	5.2	6.5	5.5
Gain (dBi)		17	17.2	17.5	18	17.3	17.8
Electrical Downtilt		5°-15°				5°-15°	
Upper Sidelobe Suppression(dB)	First	≥20	≥20	≥20	≥20	≥20	≥20
Front-to-Back Ratio Total Power, ±30° (dB)		≥25	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥20	≥20	≥20	≥20	≥20	≥20
	±30° (dB)	≥20	≥20	≥20	≥20	≥20	≥20
Isolation ports		≥30 dB				≥25 dB	
Isolation Frequency		≥25 dB					
VSWR		< 1.5					
Intermodulation IM3		< -150 dBc(2x43dBm carrier)					
Impedance		50 Ω					
Max. Power per Input (at 50°C ambient temperature)		500 W			300 W		
Lightning Protection		DC Ground					



Mechanical Specifications

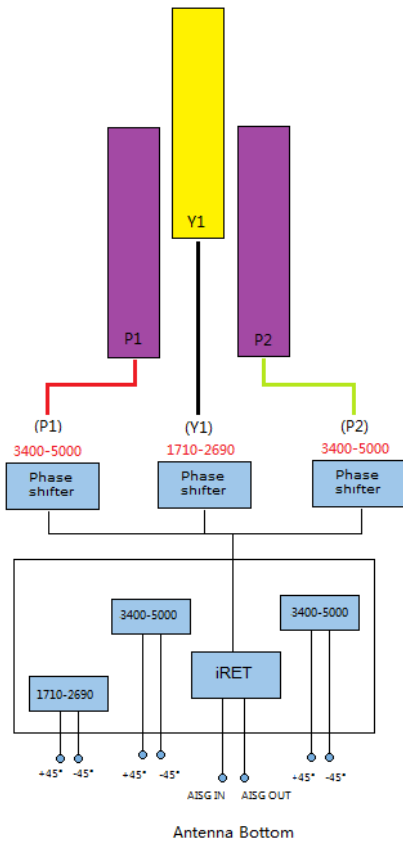
Radome Material	ASA+20%GF
Connector Type and Location	N-J x6, Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Antenna Dimensions	2000 x φ150mm
Packing Size	2210 x 245 x 300mm
Weight ,w/o Mounting kit(kg)	12
Weight,with Mounting kit(kg)	2.1
Packing Weight(kg)	17.5
Mounting hardware	φ 50 mm ~ φ 80 mm
Operational Temperature(°C)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 90m/s (Frontal/lateral/Rearside(N))	1244

Frequency Range	1710-2690x1 3400-5000x2
Polarization	±45°
Half-Power Beam Width	75° / 65°
Electrical Downtilt	5° -15° x 3

Type NW23450756517DVIS

Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in: male Daisy chain out: female
	Antenna	Two motor shaft(Embedded motor)
Hardware interface	AISG	RS485A/B(pin5/pin3);Power supply(pin6); DC return(pin7)Acc.to AISG
Adjustment time(full range)	40 sec(typically,depending on antenna)	
Adjustment Cycles	≥10000	
Torque Max	≥160mN.m	
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile,8/20 μs 10 Repetitions Min.@ 6kA IEC 61312-1 Annex B Current Pulse Profile, 10/350 μs,200 Repetitions Min. @ 0.6kA	

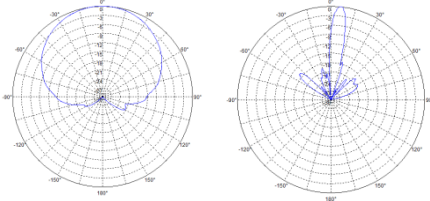
COMPREHENSIVE TILT CONFIGURATION



Frequency Range	Array	Connector
1710-2690	Y1	4. 3-10
3400-5000	P1	4. 3-10
3400-5000	P2	4. 3-10

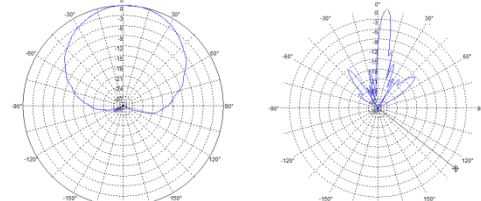
Frequency Range	1710-2690x1 3400-5000x2
Polarization	$\pm 45^\circ$
Half-Power Beam Width	75° / 65°
Electrical Downtilt	5° -15° x 3

Radiation Pattern (1710 - 2170 MHz)



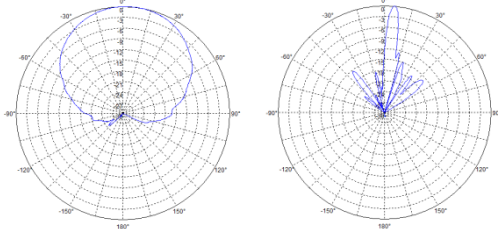
Horizontal Pattern Vertical Pattern

Radiation Patterns (2300 - 2490 MHz)



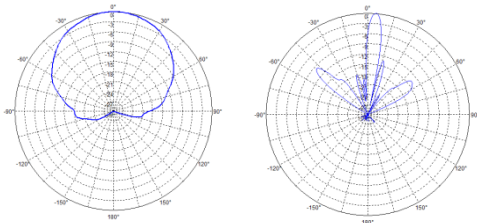
Horizontal Pattern Vertical Pattern

Radiation Patterns (2490 - 2690 MHz)



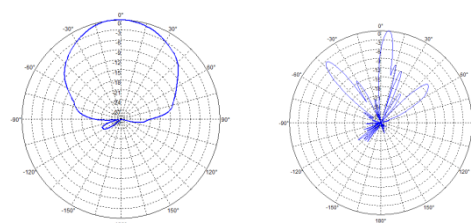
Horizontal Pattern Vertical Pattern

Radiation Pattern (3400 - 4100 MHz)



Horizontal Pattern Vertical Pattern

Radiation Patterns (4500 - 5000 MHz)



Horizontal Pattern Vertical Pattern