DENGYO

Base Station Antennas

Type N263524977151516DVIS

Frequency Range	2545-2645x4 3400-3600x4 3700-5000x2
Polarization	±45°
Half-Power Beam Width	77°
Electrical Downtilt	5°-15° x10

2545-2645x4 / 3400-3600x4 /3700-5000x2 MHz 77°, 15 / 15 / 16 dBi, 5°-15° / 5°-15° / 5°-15°Tilt Antenna With 3 Integrated RCUs and 3 Indicators.

Electrical Specifications

General parameters	Frequency range（MHz）		2545～2645	3400～3600
	Polarization		±45	±45
	Electrical downtilt(°)		5～15	5～15
Calibration and electrical parameters	Coupling factor between calibration port and each antenna port（dB）		-26±2	-26±2
	Max.amplitude tolerance from calibration port to input ports(dB)		⩽1	⩽1
	Max.phase tolerance from calibration port to input ports(°)		⩽10	⩽10
	Ports VSWR		＜1.5	＜1.5
	Max. power per input (W)		≥25	≥25
	Co-polarization isolation between ports(dB)		≥23	≥23
	Cross-polarization isolation between ports(dB)		≥25	≥25
	Intermodulation IM3(2x43dBm carrier)		< -133 dBc	< -133 dBc
Radiation parameters	Single column Beam	Horizontal 3dB beam width(°)	77±15	77±15
		Gain(dBi)	15.5	15.8
		Vertical 3dB beam width(°)	7	5.5
		Cross polar ratio(dB，0°)	17	17
		Cross polar ratio(dB，±60°)	8	8
		Front to back ratio(dB)	20	20
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	15	15
	65° Broadcast beam	Gain(dBi)	15.5	15.8
		Horizontal 3dB beam width(°)	65±5	65±5
		Vertical 3dB beam width(°)	7	5.5
		Front to back ratio(dB)	23	23
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	15	15
	Service beam	0°direct beam gain(dBi)	21.0	21.5
		0°direct beam horizontal 3dB beam width(°)	29	22
		±30°direct beam gain(dBi)	19.5	20.0
		±30°direct beam horizontal 3dB beam width(°)	35	28
		0°direct beam cross polar ratio(axial)(dB，0°)	17	17
		0°direct beam front to back ratio(dB)	23	23

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Frequency Range(MHz)		3700-5000	
		3700-4100	4500-5000
Polarization		±45°	
Horizontal 3dB Beamwidth(°)		80±15	65±15
Vertical 3dB Beamwidth(°)		6	5
Gain (dBi)		16.0	16.2
Electrical Downtilt		5°-15°	
Upper Sidelobe Suppression(dB)	First	≥15	≥15
Front-to-Back Ratio (180°±30°)(dB)		≥20	≥20
Cross polar ratio	Main direction(dB)	≥15	≥15
Cross polar Isolation(dB)		≥25	
Interband Isolation(dB)		≥25	
VSWR		< 1.5	
Intermodulation IM3		< -140 dBc(2x43dBm carrier)	
Impedance		50 Ω	
Max. Power per Input (at 50°C ambient temperature)		150 W	
Lightning Protection		DC Ground	

Mechanical Specifications

Radome Material	ASA+20%GF
Connector Type and Location	MQ5 x2 ,Bottom MQ4 x2,Bottom 4.3-10 x4,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Antenna Dimensions	1020 x φ265mm
Packing Size	1320 x 385 x 385mm
Weight ,w/o Mounting kit(kg)	18
Packing Weight(kg)	26
Mounting hardware	¢ 50 mm ~ ¢ 115 mm
Operational Temperature(°C)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 90m/s (Frontal/lateral/Rearside(N))	1120

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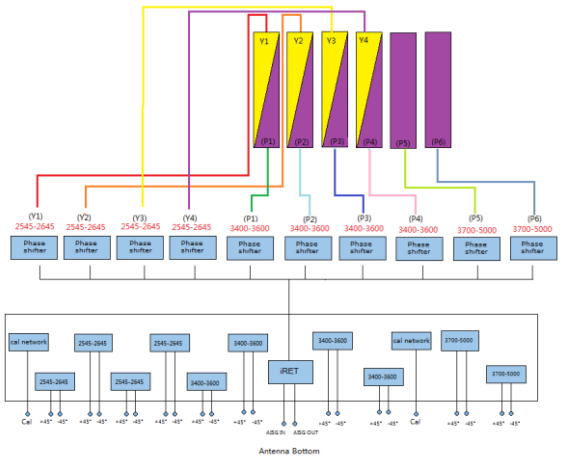
Protocols		Compliant to AISG 2.0/3GPP
Input voltage range		+10~+30VDC(pin 6)
Power consumption		<2W(stand by);<13W(motor activated)
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded motor)
Hardware interface	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



Frequency Range	Array	Connector
2545-2645MHz	Y1	MQ4/MQ5
2545-2645MHz	Y2	MQ4/MQ5
2545-2645MHz	Y3	MQ4/MQ5
2545-2645MHz	Y4	MQ4/MQ5
3400-3600MHz	P1	MQ4/MQ5
3400-3600MHz	P2	MQ4/MQ5
3400-3600MHz	P3	MQ4/MQ5
3400-3600MHz	P4	MQ4/MQ5
3700-5000MHz	P5	4.3-10 Female
3700-5000MHz	P6	4.3-10 Female

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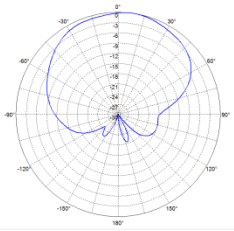
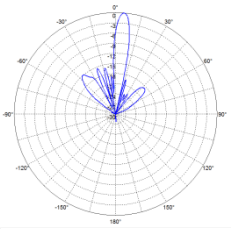
Radiation Pattern (2545 - 2645 MHz)

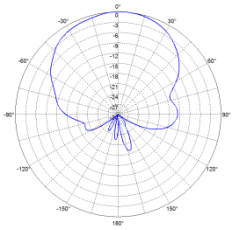


Horizontal Pattern

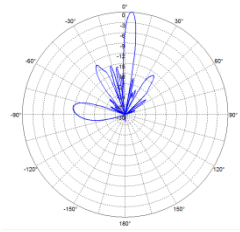


Vertical Pattern

Radiation Patterns (3400 - 3600 MHz)

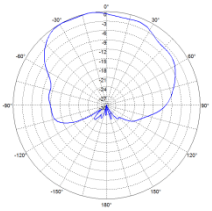


Horizontal Pattern

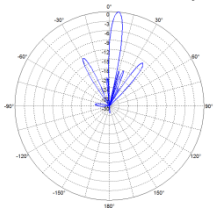


Vertical Pattern

Radiation Pattern (3700 - 5000MHz)



Horizontal Pattern



Vertical Pattern