

Frequency Range	698-960x1 1710-2690x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x3

Type HEX7-1B2J-RC65

Base Station Antenna

6-ports 698-960 / 1710-2690/ 1710-2690 MHz 65°, 16/18/18 dBi, 2°-12° / 2°- 12°/ 2°- 12°Tilt Antenna With 3 Integrated RCUs.

Electrical Specifications



Frequency Range(MHz)		698-960			2x1710-2690			
		698-806	790-894	880-960	1710-1920	1920-2170	2300-2490	2490-2690
Polarization		±45°						
Horizontal 3dB Beamwidth(°)		67±6	66±4	64±5	67±6	65±5	64±5	62±4
Vertical 3dB		10.5±1.0	9.5±0.8	8.8±0.7	7.5±0.9	6.5±0.6	5.5±0.5	5.2±0.5
Gain (dBi)		15±0.5	15.5±0.5	16.0±0.4	16.8±0.6	17.4±0.4	17.8±0.5	18.0±0.6
Electrical Downtilt		2°-12°			2°-12°			
Upper Sidelobe Suppression(dB)	First	≥18	≥18	≥18	≥18	≥18	≥18	≥18
Front-to-Back Ratio Total Power,±30° (dB)		≥27	≥27	≥27	≥28	≥28	≥28	≥28
Cross polar ratio	Main direction(dB)	≥18	≥18	≥18	≥18	≥18	≥18	≥18
	±60° (dB)	≥8	≥8	≥8	≥8	≥8	≥8	≥8
Isolation ports		≥28 dB						
Isolation Frequency		≥30 dB						
VSWR		< 1.5						
Intermodulation IM3		< -153 dBc(2x43dBm carrier)						
Impedance		50 Ω						
Max. Power per Input (at 50°C ambient		500 W			250 W			
Lightning Protection		DC Ground						

Mechanical Specifications

Radome Material	Fiberglass
Connector Type and Location	4.3-10x6, Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)	2000 x 399 x 199
Packing Size(mm)	2175 x 510 x 345
Weight ,w/o Mounting kit(kg)	28
Weight w/ Downtilt Bracket(kg)	35
Packing Weight (w/ Downtilt Bracket) (kg)	41
Max. Wind Velocity(mph)	150
Mounting hardware	φ 50 mm ~ φ 115 mm
Operational Temperature(°C)	-40 to +70
Operational Humidity(%)	<95
Mechanical tilt(Optional)	0°-10°
Wind Load at 150km/h (Frontal/lateral/Rearside(N))	1171/498/1327

This publication is issued to information only and is not to form part of any order or contract DENGYO reserves the right to changes specifications without prior notice.

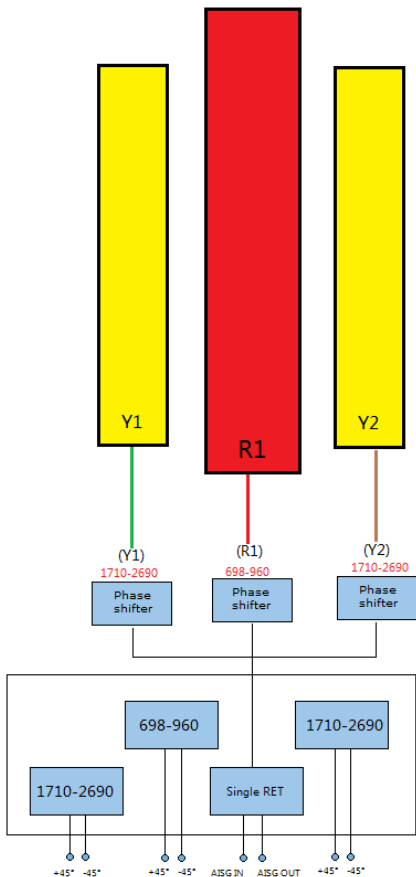
Frequency Range	698-960x1 1710-2690x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x3

Type HEX7-1B2J-RC65

Integrated RET Properties

RET Type	3 x Type 1 Single RET	
Protocols	Compliant to AISG 3.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<10W(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	

COMPREHESIVE TILT CONFIGURATION



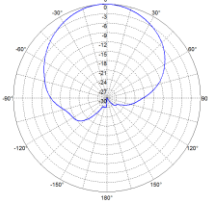
Frequency Range	Array	RET Unique ID
698-960MHz	R1	NDPMXXXXXXXX-7090R1
1710-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1710-2690MHz	Y2	NDPMXXXXXXXX-1727Y2

Note: (1) Physical RET Unit containing (3) Single RET

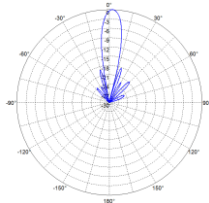
Frequency Range	698-960x1 1710-2690x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x3

Type **HEX7-1B2J-RC65**

Radiation Pattern (698 - 824 MHz)

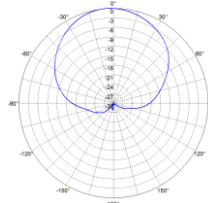


Horizontal Pattern

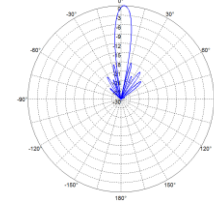


Vertical Pattern

Radiation Patterns (824 - 960 MHz)

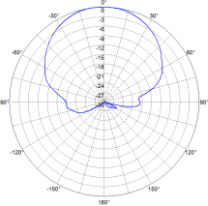


Horizontal Pattern

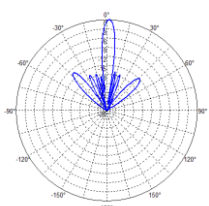


Vertical Pattern

Radiation Pattern (1710 - 2200 MHz)

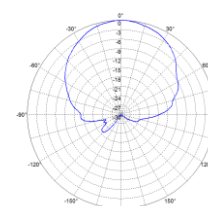


Horizontal Pattern

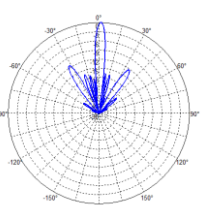


Vertical Pattern

Radiation Patterns (2490 - 2690 MHz)



Horizontal Pattern



Vertical Patter