DENGYO

Base Station Antennas

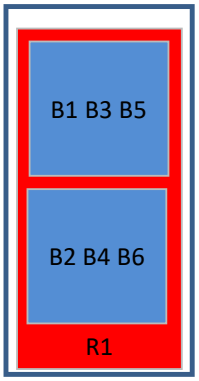
Type Triple Beam TB0621-02

Frequency Range	698-896x1 1710-2170x2
Polarization	±45°
Half-Power Beam Width	65° / 30° - 25°
Electrical Downtilt	2° - 12°

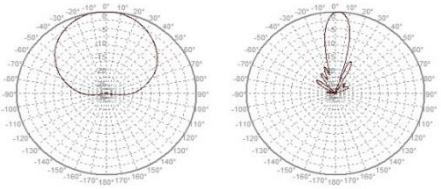
Electrical Specifications

Frequency Range (MHz)	698-896(R1)		1710-2170(B1B2,B3B4,B5B6)		
	698-806	806-896	1710-1880	1850-1990	1920-2170
Polarization	±45°				
Gain (dBi)	13.5	14	16.5	16.7	17
Horizontal Pattern					
Half-Power Beamwidth	64	62	30,26,30	27,24,27	25,22,25
Beam Centers (±3deg)	NA	NA	-32°,0,+32°	-30°,0,+30°	-28°,0,+28°
Front-to-Back Ratio	≥ 23dB	≥ 25dB	≥ 25dB	≥ 25dB	≥ 25dB
Vertical Pattern					
Half-Power Beamwidth	15.5	14.5	14	12.5	11.5
Electrical Downtilt Range	See options below				
1st Upper Sidelobe Suppression	<-15dB	<-15dB	<-14dB	<-14dB	<-14dB
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.

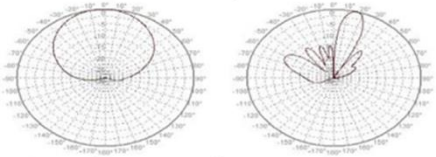


698-896MHz +45°/-45° Polarization



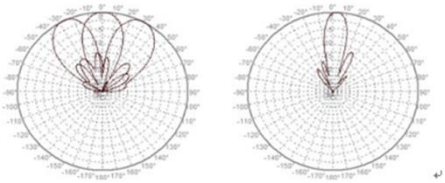
Horizontal Pattern 2° Vertical Pattern 2°

698-896MHz +45°/-45° Polarization



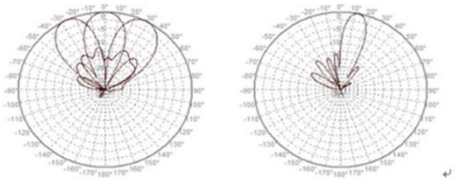
Horizontal Pattern 12° Vertical Pattern 12°

1710-2170MHz +45°/-45° Polarization



Horizontal Pattern 2° Vertical Pattern 2°

1710-2170MHz +45°/-45° Polarization



Horizontal Pattern 12° Vertical Pattern 12°

Mechanical Specifications

Connector	14 x 4.3-10 DIN(F)
Connector Position	Bottom
Radome Material	ASA
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)	660 N@ 150 km/h
Mounting Hardware	Φ50 ~ Φ115 mm
Antenna Weight (Kg)	22.6
Packing Weight (Kg)	31.6
Antenna Size (LxWxH)	1630 x 380 x 188 mm
Packing Size (LxWxH)	1920 x 510 x 310 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	
2C2C	L :2° ~ 12; H :2° ~ 12°

Electrical Tilt adjustment
Pluggable RET

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