

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



Electrical Specifications

Frequency Range (MHz)	698-960 (x1)			1710-2690 (x3)				
	698	790	870	1710	1850	1920	2200	2500
	806	896	960	1880	1990	2200	2500	2690
Polarization	±45°			±45°				
Gain (dBi)	13.1	13.5	14	14.6	14.9	15.1	15.3	15.5
Horizontal Pattern								
Half-Power Beamwidth (deg)	66	66	64	65	65	63	61	60
Front-to-Back Ratio	≥ 25dB							
Vertical Pattern								
Half-Power Beamwidth (deg)	17	15.5	14.5	12.5	12	11	10	9
Electrical Downtilt Range	See options below							
1st Upper Sidelobe Suppression	≤ -15dB			≤ -15dB				
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 7-16 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)	760N@ 160 mph
Mounting Hardware	Φ50 ~ Φ115 mm
Antenna Weight	20.2 Kg
Packing Weight	28.5 Kg
Antenna Size (LxWxH)	1538 x 350 x 200 mm
Packing Size (LxWxH)	1818 x 425 x 275 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°
------	--------------------------

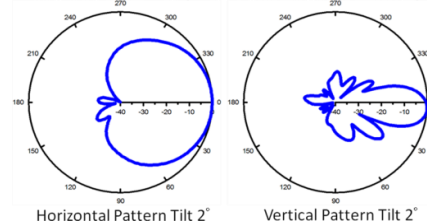
Electrical Tilt adjustment

RET (1 AISG M/F interface per antenna)
(daisy chain inside)

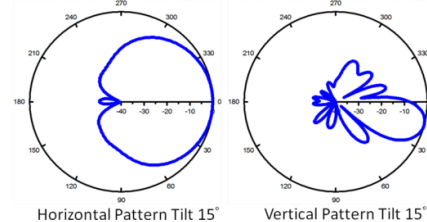
Connector Plate

1 698-960 +45°		1 698-960 +45°		1 698-960 +45°	
2 1710-2690 -45°	2 1710-2690 +45°	3 1710-2690 -45°	3 1710-2690 +45°	4 1710-2690 -45°	4 1710-2690 +45°

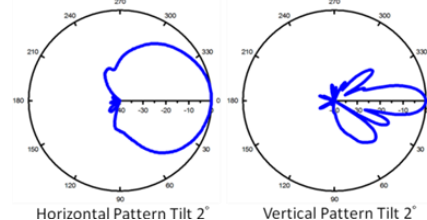
698-960 MHz +45° / -45° Polarization(722MHz)



698-960 MHz +45° / -45° Polarization(722MHz)



1710-2690 MHz +45° / -45° Polarization(1750MHz)



1710-2690 MHz +45° / -45° Polarization(1750MHz)

