

Frequency Range	698-960x1 1710-2690x4
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	L: 4° - 14° H: 2° - 12°

**Electrical Specifications**

Frequency Range (MHz)	698-960 (x1)		1710-2690 (x4)		
	698-806	806-960	1710-1920	1920-2170	2170-2690
Polarization	±45°		±45°		
Gain (dBi)	13.0	14.0	15.0	15.5	15.8
<b>Horizontal Pattern</b>					
Half-Power Beamwidth (deg)	68	67	63	58	63
Front-to-Back Ratio	≥ 25dB				
<b>Vertical Pattern</b>					
Half-Power Beamwidth (deg)	18	15	14	12	10
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 commendatio

**Mechanical Specifications**

Connector	10 x 4.3-10 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)	750N@ 160 mph
Mounting Hardware	Φ50 ~ Φ115 mm
Antenna Weight	26.5 Kg
Packing Weight	35.7 Kg
Antenna Size (LxWxH)	1580 x 350 x 190 mm
Packing Size (LxWxH)	1750 x 470 x 420 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**

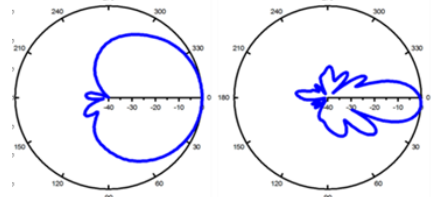
4E2C	L : 4° ~ 14° ; H : 2° ~ 12°
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**Electrical Tilt adjustment**

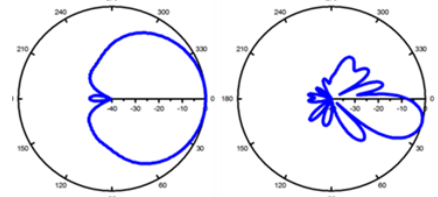
RET ( 1 AISG M/F interface per antenna)  
(daisy chain inside)



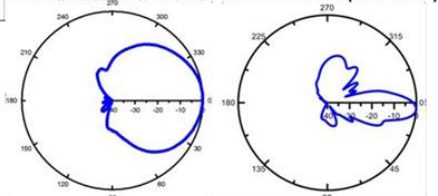
698-960 MHz +45° / -45° Polarization(722MHz)



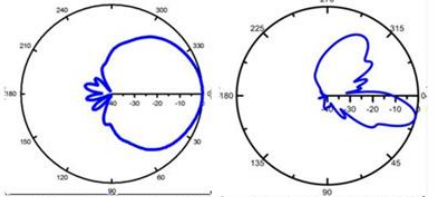
698-960 MHz +45° / -45° Polarization(722MHz)



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



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



Horizontal Pattern Tilt 12° Vertical Pattern Tilt 12°