

Electrical Specifications

Frequency Range (MHz)	698~960 (x1)		1710~2690 (x2)	
	698~806	806~960	1710~2170	2170~2690
Polarization	±45°		±45°	
Gain (dBi, ±1dB)	11.5	12.0	15.0	16.0
Gain with tilt (dBi, ±1dB)	-	-	0° 5° 10° 15 15 15	0° 5° 10° 16 16 16

Horizontal Pattern

Half-Power Beamwidth (±5°)	70	70	60	60
Front-to-Back Ratio (180°±30°)	≥ 25dB	≥ 25dB	≥ 25dB	≥ 25dB
Cross-Pol Ratio(broadside) 0° Sector ±60°	15dB Typically : 8dB			

Vertical Pattern

Half-Power Beamwidth (±5°)	32	27	12	9
Electrical Downtilt Range (°)	0, 5 or 12		0 ~ 10	
1st Upper Sidelobe Suppression±30°	< -15dB		< -17dB	
VSWR/ReturnLoss	< 1.5/<-14dB			
In-Band Isolation Port to Port	≥ 25dB			
Inter-Band Isolation Port to Port	≥ 30dB			
Intermodulation (IMD3)	<-150dBc (2x43dBm carrier)			
Max. Power per Input	500 / 250 W (at 50 °C ambient temperature)			
Impedance	50 Ω			
LightningProtection	DC ground			

Note: All the values are according to NGMN Alliance BTS Standards calculating recommendation.

Mechanical Specifications

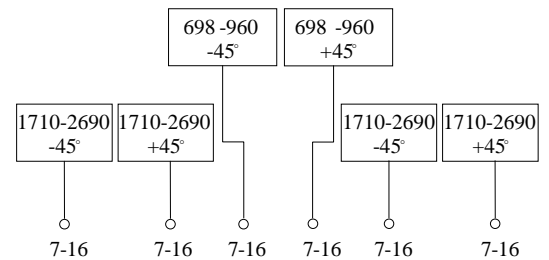
Connector	6 x 7-16 DIN(F)
Connector Position	Bottom
Radome Material	Fiberglass, ASA,UV resistant
Radome Color	Gray
Operating Temperature	-40 C~65 C
Humidity	95% RH@+30 °C
Rated Wind Speed	201 km/h, 125 mph
Rated Wind Loading (Rear)	400 N@200mph
Mounting Hardware	Φ50~115 mm
Mechanical Downtilt Range (°)	0 ~ 20
Antenna Weight	12.6 Kg
Packing Weight	18.5 Kg
Antenna Size (LxWxH)	856 x 350 x 250 mm
Packing Size (LxWxH)	1010 x 470 x 420 mm

Options

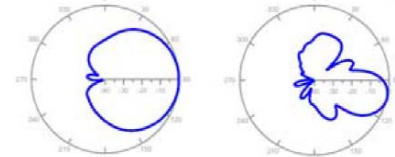
Internal RET	
Input voltage range	10-30 V
Power Consumption	<1 watt (standby) <8.5 watts (motor activated)
Protocols Compliant	3GPP / ASIG 2.0 / ASIG 1.1
Mounting kit models	MKT20-E66

Internal Mounted Smart Bias "T"

Note: F: For antenna with fixed tilt. R: For antenna with remote adjustable. M: For antenna with manual adjustable.

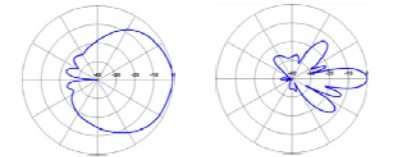


698-960 MHz +45° / -45° Polarization (821MHz)



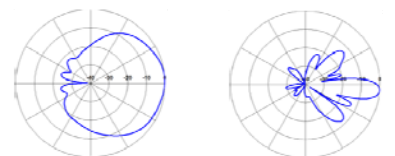
Horizontal Pattern Tilt 12° Vertical Pattern Tilt 12°

1710-2690 MHz +45° / -45° Polarization (1785MHz)



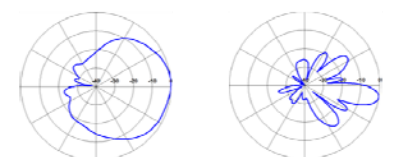
Horizontal Pattern Tilt 0° Vertical Pattern Tilt 0°

1710-2690 MHz +45° / -45° Polarization (1785MHz)



Horizontal Pattern Tilt 5° Vertical Pattern Tilt 5°

1710-2690 MHz +45° / -45° Polarization (1785MHz)



Horizontal Pattern Tilt 10° Vertical Pattern Tilt 10°