

Band	1710-2690 x2
Polarization	XX
Half-power Beam Width	65°



Model: XX65-1727RTDW

Electrical Specifications

Operating Frequency Band ,[MHz]		1710-2690 x2		
Frequency Range ,[MHz]		1710-1880	1920-2170	2500-2690
Polarization , [degrees]		±45, ±45		
Gain [dBi]		16.7 ±0.5	17.2 ±0.5	17.7 ±0.6
Horizontal Beam Width ,[degrees]		66.0 ±5.0	65.0 ±5.0	60.0 ±5.0
Front-to-Back Ratio (180° ±30°) , [dB]		≥27	≥27	≥27
Cross Polar Discrimination	Boresight ,[dB]	≥21	≥21	≥20
	Sector ,[dB]	≥8.5	≥8.5	≥8.5
Vertical Beam Width ,[degrees]		8.3 ±0.7	7.6 ±0.6	6.0 ±0.7
Adjustable Electrical Downtilt		0-10		
Sidelobe suppression for first sidelobe above main beam ,[dB]		≥18	≥18	≥18
VSWR		≤ 1.5		
Isolation	Cross Polar , [dB]	≥ 25		
	Port to Port , [dB]	≥ 25		
3rd Order PIM@2x43dBm ,[dBc]		≤ -150		
Maximum Input Power		250W		
Impedance		50Ω		
Lightning Protection		DC Ground		

Values based on NGMN-P-BASTA(Version 9.6) requirements

Mechanical Specifications

Radome Material	ASA
Connector Type	4.3-10 Female x4
Mounting Hardware	
Mast Diameter Adjustable	φ 50mm - φ 115mm
Mechanical Downtilt Angle	0° - 20°
Operating Temperature Range	-40°C~+65°C
Operating Humidity	0 - 95%RH @+30°C
Enclosure Protection	IP55
RF Connector Protection	IP67
Wind Load (Front / Lateral / Rear)	660N / 261N / 660N (at 150km/h)
Wind Velocity	200 km/h
Weight	18kg
Dimension(Length x width x depth)	1380mm x 319mm x 127mm

RET Informations

Condition	Internal	
Protocol	3GPP / AISG 1.1 / AISG 2.0 Multi RET	
Input Voltage	10 - 30 V	
Power Consumption	< 1W (Idle state) < 8.5 W (Motor activated)	
Number of Interface	Multi RET	Male: 1 , Female: 1

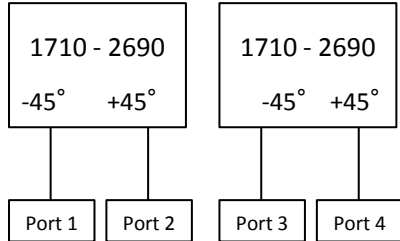


Band	1710-2690 x2
Polarization	XX
Half-power Beam Width	65°



Model: XX65-1727RTDW

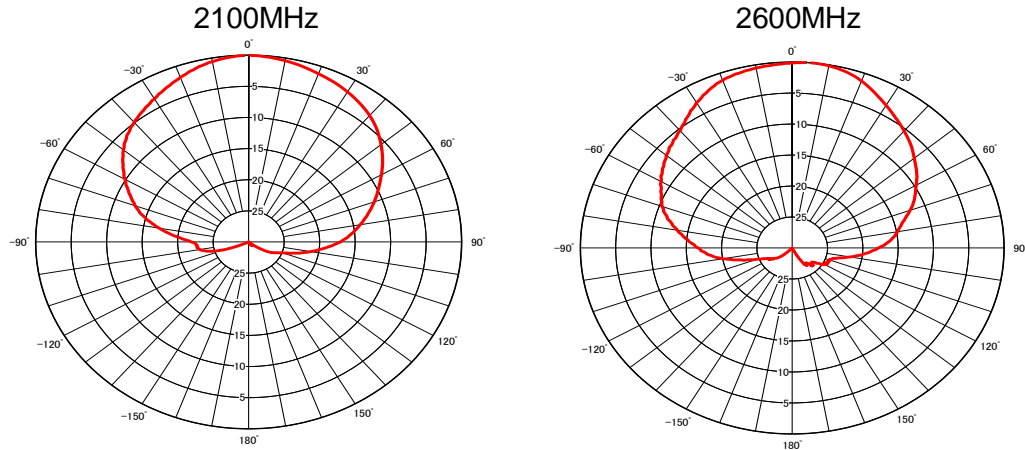
RF Port Diagram



Layout of Interface (Antenna bottom view)



Horizontal Plane Radiation Pattern



Vertical Plane Radiation Pattern

