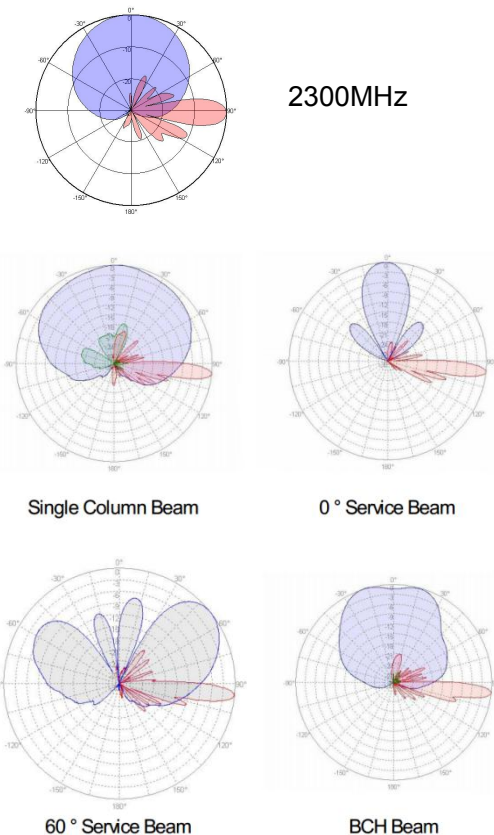


16 Port 2300-2690 And 3300-3800MHz Panel Antenna

Electrical specifications	
Frequency Range (MHz)	2300-2690
Polarization(°)	±45°
Gain(dBi)	14.5
Horizontal Beam width(°)	65
Vertical Beam width(°)	14
Electrical Down tilt (°)	2-12
Electrical Down tilt Deviation(°)	±1
1st Upper Side-lobe Suppression(dB)	≤-16
Front-To-Back Ratio,180°±30°(dB)	≥25
Cross-polar Discrimination@0°(dB)	≥15
Maximum Power per Port(W)	250
VSWR	≤1.5
Isolation (dB)	≥30
Intermodulation IM3 (dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



2015MHz

Mechanical&Environmental specifications	
Antenna size(mm)	2700×322×105
Packing size(mm)	2900×420×203
Antenna weight(kg)	30
Mounting weigh(kg)	8
Packing weigh(kg)	40
Connector FDD	2*7/16 DIN Female
Connector TDD FAD	1*(4pin+5pin) Cluster
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65
Adjustable pitch(°)	0-10
Others	Anti-corrosion, anti-rust

Electrical specifications			
Frequency Range (MHz)	1880~1920	2010~2025	
Connector	2*cluster (4+1pin)		
Input impedance (Ω)	50		
All ports & calibration port: VSWR	<1.5		
Co-polar isolation (dB)	≥25		
Cross-polar isolation (dB)	≥25		
Continuous carrier power per port (W)	50		
Downtilt(vertical plane) (°)	2-12		
Downtilt(vertical plane) accuracy (°)	±1		
Calibration port-all port: coupling (dB)	-26±2		
Calibration port-all port max.amplitude offset (dB)	<0.7		
Calibration port-all port max.phase offset (°)	<5		
Element beam	Vertical half power beam-width (°)	7±2	
	The 1 st upside lobe suppression (dB)	/	
	The 1 st lower null-fill (dB)	/	
	Horizontal half power beam-width (°)	100±5	90±15
	Gain (dBi)	≥13.5	≥14.5
	F/B ratio (dB)	≥23	≥23
	Cross polarization ratio(axial) (dB)	≥18	
	Cross polarization ratio@±60° (dB)	≥10	
	±60°edge beam power loss(dB)	/	
service beam	0°beam gain (dBi)	≥19.5	≥20
	0°beam horizontal HBW (°)	≤29	≤26
	0°beam side-lobe level (dB)	≤-12	
	0°beam cross polarization (axial) (dB)	≥18	
	0°beam F/B ratio (dB)	≥28	
	±60°beam gain (dBi)	≥16	≥16
	±60°beam horizontal HPBW (°)	<32	
	±60°beam side-lobe level (dB)	≤-5	
	Cross -polarization ratio(axial) (dB)	15	
	F/B ratio (dB)	32	

broadcast beam	Gain (dBi)	13.5		14.5				
	Power ratio of $\pm 32.5^\circ$ sector (%)							
	Power ratio of $\pm 60^\circ$ sector (%)							
	Horizontal HPBW ($^\circ$)	65 \pm 5		65 \pm 5				
	Vertical HPBW ($^\circ$)	7 \pm 2		7 \pm 2				
	Cross-polarization ratio(axial) (dB)	≥ 22						
	Cross-polarization@ $\pm 60^\circ$ (dB)	≥ 10						
	F/B ratio (dB)	≥ 28						
	1 st upper side-lobe suppression(dB)	≤ -16						
	1 st lower null-fill (dB)	≥ -18						
	$\pm 60^\circ$ edge beam power loss(dB)	12 \pm 2						
	FA band 65°broadcast beam weighted value							
port	1	2	3	4	5	6	7	8
Phase ($^\circ$)	0	-3	-3	177	0	-3	-3	177
Amplitude	0.46	1	1	0.61	0.46	1	1	0.61