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2022-1

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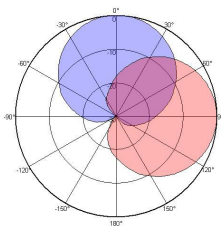
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1. Base Station Antenna

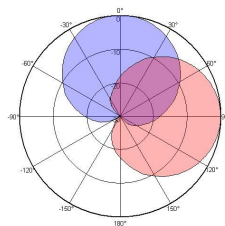


2 port, 1*(L+H), 13dBi, 13dBi, 16dBi, Panel Antenna

Electrical specifications		
Frequency Range (MHz)	698-960	1710-2690
Polarization	±45°	
Gain(dBi)	13	16
Horizontal Beam width(°)	35	25
Vertical Beam width(°)	35	25
Electrical Down tilt (°)	/	
Electrical Down tilt Deviation(°)	/	
1st Upper Side-lobe Suppression(dB)	≤-15	≤-15
Front-To-Back Ratio, 180°±30°(dB)	≥23	≥23
Cross-polar Discrimination@0°(dB)	≥10	≥10
Maximum Power per Port(W)	250	
VSWR	≤1.5	
Isolation (dB)	≥25	
Intermodulation IM3(dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



698MHz

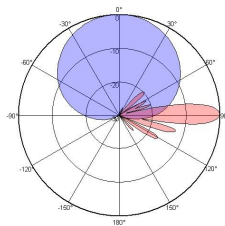


2690MHz

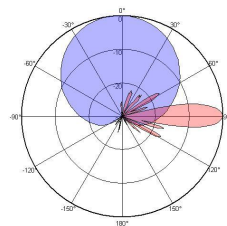
Mechanical specifications	
Antenna size(mm)	500×500×140
Packing size(mm)	650*510*200
Antenna weight(kg)	6.5
Mounting weigh(kg)	2.5
Packing weigh(kg)	12
Connector	2×7/16DIN-Female
Connector Location	Bottom
Radome Material	FRP
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

2 port,1L,14.5dBi,Panel Antenna

Electrical specifications	
Frequency Range (MHz)	698-960
Polarization	±45°
Gain(dBi)	14.5
Horizontal Beam width(°)	65
Vertical Beam width(°)	15
Electrical Down tilt (°)	2-12
Electrical Down tilt Deviation(°)	±1.5
1st Upper Side-lobe Suppression(dB)	≤-15
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)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



698MHz

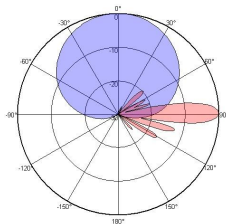


960MHz

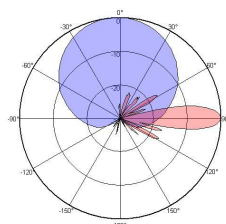
Mechanical specifications	
Antenna size(mm)	1550×270×140
Packing size(mm)	1610*340*210
Antenna weight(kg)	9.6
Mounting weigh(kg)	5.4
Packing weigh(kg)	16
Connector	2×7/16DIN-Female
Connector Location	Bottom
Radome Material	Fiberglass
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

2 port,1L,16.5dBi,Panel Antenna

Electrical specifications	
Frequency Range (MHz)	698-960
Polarization	±45°
Gain(dBi)	16.5
Horizontal Beam width(°)	65
Vertical Beam width(°)	9.5
Electrical Down tilt (°)	2-12
Electrical Down tilt Deviation(°)	±1
1st Upper Side-lobe Suppression(dB)	≤-15
Front-To-Back Ratio,180°±30°(dB)	≥26
Cross-polar Discrimination@0°(dB)	≥15
Maximum Power per Port(W)	500
VSWR	≤1.5
Isolation (dB)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



698MHz

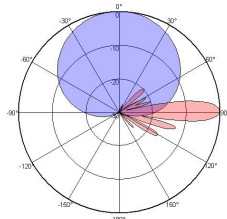


960MHz

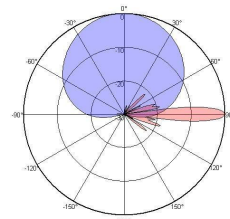
Mechanical specifications	
Antenna size(mm)	2100×270×140
Packing size(mm)	2200×340×210
Antenna weight(kg)	16.5
Mounting weigh(kg)	8
Packing weigh(kg)	26
Connector	2x7/16 DIN Female
Connector Location	Bottom
Radome Material	Fiberglass
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

4 port,2L,12dBi,Panel Antenna

Electrical specifications	
Frequency Range (MHz)	698--960
Polarization	±45°
Gain(dBi)	14.5
Horizontal Beam width(°)	68
Vertical Beam width(°)	26
Electrical Down tilt (°)	2-12
Electrical Down tilt Deviation(°)	±1
1st Upper Side-lobe Suppression(dB)	≤-15
Front-To-Back Ratio,180°±30°(dB)	≥23
Cross-polar Discrimination@0°(dB)	≥ 15
Maximum Power per Port(W)	250
VSWR	≤1.5
Isolation (dB)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



698MHz

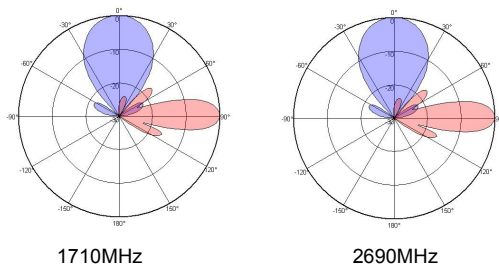


960MHz

Mechanical specifications	
Antenna size(mm)	1550×416×164
Packing size(mm)	1610×520×270
Antenna weight(kg)	10
Mounting weigh(kg)	3.5
Packing weigh(kg)	15
Connector	4×4.3-10-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

2 port,1H,9dBi,Panel Antenna

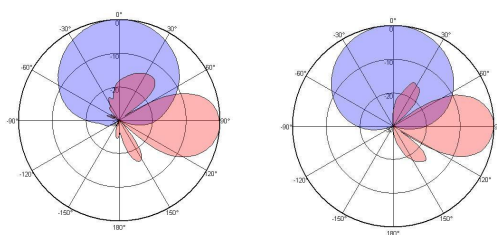
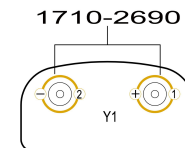
Electrical specifications	
Frequency Range (MHz)	1710-2690
Polarization	±45°
Gain(dBi)	9
Horizontal Beam width(°)	65
Vertical Beam width(°)	55
Electrical Down tilt (°)	/
Electrical Down tilt Deviation(°)	/
1st Upper Side-lobe Suppression(dB)	≤-15
Front-To-Back Ratio,180°±30°(dB)	≥25
Cross-polar Discrimination@0°(dB)	≥15
Maximum Power per Port(W)	250
VSWR	≤1.5
Isolation (dB)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



Mechanical specifications	
Antenna size(mm)	375×160×83
Packing size(mm)	450×200×150
Antenna weight(kg)	2.1
Mounting weigh(kg)	5.6
Packing weigh(kg)	11
Connector	2×7/16DIN-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

2 port,1H,12dBi,Panel Antenna

Electrical specifications	
Frequency Range (MHz)	1710-2690
Polarization	±45°
Gain(dBi)	11.5
Horizontal Beam width(°)	65
Vertical Beam width(°)	30
Electrical Down tilt (°)	3
Electrical Down tilt Deviation(°)	±1
1st Upper Side-lobe Suppression(dB)	≥15
Front-To-Back Ratio,180°±30°(dB)	≥25
Cross-polar Discrimination@0°(dB)	≥15
Maximum Power per Port(W)	300
VSWR	≤1.5
Isolation (dB)	≥28
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



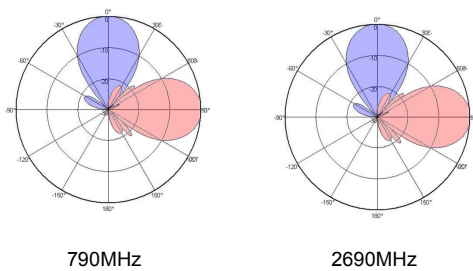
1710MHz

2690MHz

Mechanical specifications	
Antenna size(mm)	280×160×85
Packing size(mm)	380×4-220×105
Antenna weight(kg)	3.7
Mounting weigh(kg)	5.6
Packing weigh(kg)	13
Connector	2×N-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~60
Operating Humidity(%)	≤95
Wind resistance(km/h)	200
Waterproof	IP65

2 port,790-960/1710-2690MHz,13dBi,15dBi,Panel Antenna

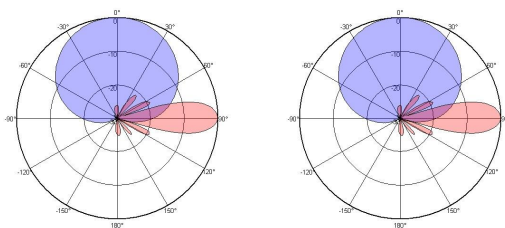
Electrical specifications		
Frequency Range (MHz)	790-960*2	1710-2690*2
Polarization	±45°	±45°
Gain(dBi)	13	15
Horizontal Beam width(°)	35±5	35±5
Vertical Beam width(°)	35±5	35±5
1st Upper Side-lobe Suppression(dB)	≥15	
Front-To-Back Ratio, 180°±30°(dB)	≥23	
Cross-polar Discrimination@0°(dB)	≥15	
Maximum Power per Port(W)	300	
VSWR	≤1.5	
Isolation (dB)	≥26	
Intermodulation IM3(dBc)	≤-153(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



Mechanical specifications	
Antenna size(mm)	500×500×164
Packing size(mm)	670×4-590×290
Antenna weight(kg)	8
Mounting weigh(kg)	5.6
Packing weigh(kg)	15
Connector	2×4.3-10-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~60
Operating Humidity(%)	≤95
Wind resistance(km/h)	200
Waterproof	IP65

4 port,2H,14.5dBi,Panel Antenna

Electrical specifications	
Frequency Range (MHz)	1710-2690
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)	≤-15
Front-To-Back Ratio,180°±30°(dB)	≥25
Cross-polar Discrimination@0°(dB)	≥15
Maximum Power per Port(W)	300
VSWR	≤1.5
Isolation (dB)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



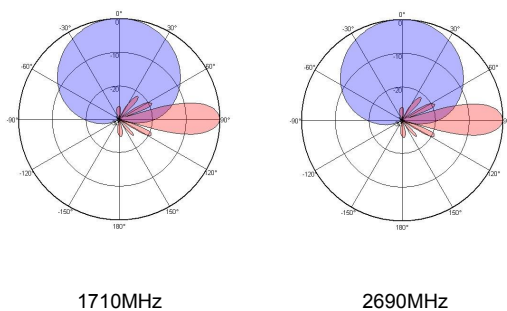
1710MHz

2690MHz

Mechanical specifications	
Antenna size(mm)	670×320×105
Packing size(mm)	800×405×190
Antenna weight(kg)	8
Mounting weigh(kg)	3
Packing weigh(kg)	12
Connector	4*7/16 DIN Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

4 port,2H,16dBi,Panel Antenna

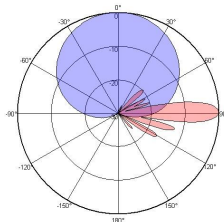
Electrical specifications	
Frequency Range (MHz)	1710-2690
Polarization	±45°
Gain(dBi)	16
Horizontal Beam width(°)	65
Vertical Beam width(°)	9
Electrical Down tilt (°)	2-12
Electrical Down tilt Deviation(°)	±1
1st Upper Side-lobe Suppression(dB)	≤-15
Front-To-Back Ratio,180°±30°(dB)	≥25
Cross-polar Discrimination@0°(dB)	≥15
Maximum Power per Port(W)	200
VSWR	≤1.5
Isolation (dB)	≥28
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



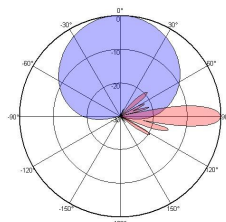
Mechanical specifications	
Antenna size(mm)	1305×320×105
Packing size(mm)	1550×420×300
Antenna weight(kg)	18
Mounting weigh(kg)	8
Packing weigh(kg)	30
Connector	4*7/16 DIN Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

4 port,2H,17.5dBi,Panel Antenna

Electrical specifications	
Frequency Range (MHz)	1710-2690
Polarization	±45°
Gain(dBi)	17.5
Horizontal Beam width(°)	65
Vertical Beam width(°)	7
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)	200
VSWR	≤1.5
Isolation (dB)	≥30
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



1710MHz

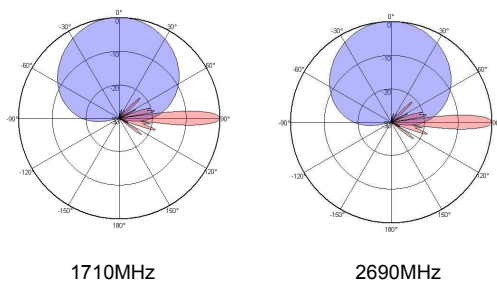


2690MHz

Mechanical specifications	
Antenna size(mm)	1420×320×105
Packing size(mm)	1750×420×180
Antenna weight(kg)	30
Mounting weigh(kg)	13
Packing weigh(kg)	46
Connector	4*7/16 DIN Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

6 port,3H,17.5dBi,Panel Antenna

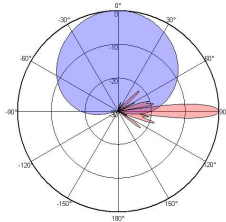
Electrical specifications	
Frequency Range (MHz)	1710-2690
Polarization	±45°
Gain(dBi)	17.5
Horizontal Beam width(°)	65
Vertical Beam width(°)	6.5
Electrical Down tilt (°)	2-12
Electrical Down tilt Deviation(°)	±1
1st Upper Side-lobe Suppression(dB)	≥15
Front-To-Back Ratio,180°±30°(dB)	≥25
Cross-polar Discrimination@0°(dB)	≥15
Maximum Power per Port(W)	250
VSWR	≤1.5
Isolation (dB)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



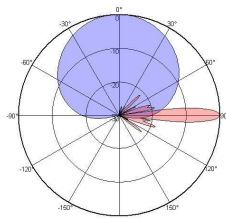
Mechanical specifications	
Antenna size(mm)	1330×472×88
Packing size(mm)	1630×522×138
Antenna weight(kg)	24.8
Mounting weigh(kg)	5.6
Packing weigh(kg)	32
Connector	6×7/16DIN-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

8 port,4H,17.5dBi,Panel Antenna

Electrical specifications	
Frequency Range (MHz)	1710-2690
Polarization	±45°
Gain(dBi)	17.5
Horizontal Beam width(°)	65
Vertical Beam width(°)	≥6
Electrical Down tilt (°)	2-12
Electrical Down tilt Deviation(°)	±1
1st Upper Side-lobe Suppression(dB)	≥15
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)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



1710MHz

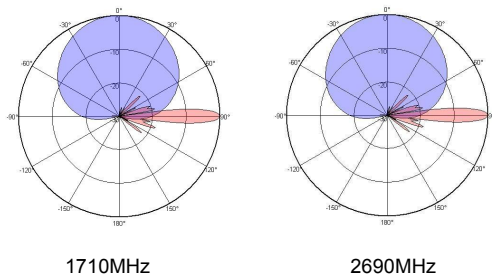


2690MHz

Mechanical specifications	
Antenna size(mm)	1420×550×160
Packing size(mm)	1700×600×250
Antenna weight(kg)	32
Mounting weigh(kg)	13
Packing weigh(kg)	50
Connector	8×4.3-10
Connector Location	Bottom
Radome Material	FRP
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	200
Waterproof	IP65

8 port,4H,18dBi,Panel Antenna

Electrical specifications		
Frequency Range (MHz)	1710-2170	2300-2690
Polarization	±45°	
Gain(dBi)	17	18
Horizontal Beam width(°)	27-42	
Vertical Beam width(°)	8.5-13.5	
Electrical Down tilt (°)	2-12	
Electrical Down tilt Deviation(°)	±1	
1st Upper Side-lobe Suppression(dB)	≥15	
Front-To-Back Ratio,180°±30°(dB)	≥25	
Cross-polar Discrimination@0°(dB)	≥15	
Maximum Power per Port(W)	200	
VSWR	≤1.5	
Isolation (dB)	≥28	
Intermodulation IM3(dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



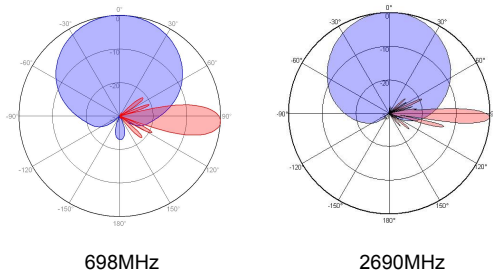
1710MHz

2690MHz

Mechanical specifications	
Antenna size(mm)	1650×550×160
Packing size(mm)	1850×650×220
Antenna weight(kg)	26
Mounting weigh(kg)	8
Packing weigh(kg)	39
Connector	8×4.3-10
Connector Location	Bottom
Radome Material	FRP
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	200
Waterproof	IP65

4 port,1L1H,14dBi,16dBi,Panel Antenna

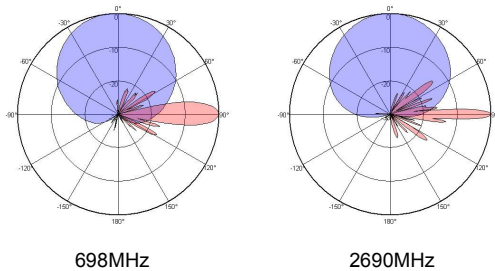
Electrical specifications		
Frequency Range (MHz)	698-960	1710-2690
Polarization	±45°	
Gain(dBi)	14	16
Horizontal Beam width(°)	65	65
Vertical Beam width(°)	15	8
Electrical Down tilt (°)	2-12	2-12
Electrical Down tilt Deviation(°)	±1	
1st Upper Side-lobe Suppression(dB)	≤-15	≤-15
Front-To-Back Ratio,180°±30°(dB)	≥25	≥25
Cross-polar Discrimination@0°(dB)	≥15	≥15
Maximum Power per Port(W)	250	
VSWR	≤1.5	
Isolation (dB)	≥28	
Intermodulation IM3(dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



Mechanical specifications	
Antenna size(mm)	1200×300×150
Packing size(mm)	1300×400×250
Antenna weight(kg)	18
Mounting weigh(kg)	5.5
Packing weigh(kg)	28
Connector	4×7/16DIN-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

4 port,1L1H,16dBi,18dBi,Panel Antenna

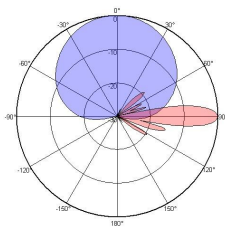
Electrical specifications		
Frequency Range (MHz)	698-960	1710-2690
Polarization	±45°	
Gain(dBi)	15.5	17.5
Horizontal Beam width(°)	65	65
Vertical Beam width(°)	15	15
Electrical Down tilt (°)	2-12	
Electrical Down tilt Deviation(°)	±1	
1st Upper Side-lobe Suppression(dB)	≤-16	≤-16
Front-To-Back Ratio,180°±30°(dB)	≥25	≥25
Cross-polar Discrimination@0°(dB)	≥15	≥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	



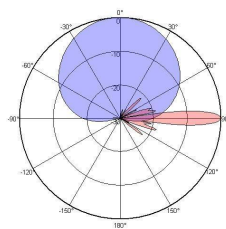
Mechanical specifications	
Antenna size(mm)	2080×300×150
Packing size(mm)	2300*400*300
Antenna weight(kg)	25
Mounting weigh(kg)	5.5
Packing weigh(kg)	36
Connector	4×7/16DIN-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

8 port,2L2H,16dBi,17dBi,Panel Antenna

Electrical specifications		
Frequency Range (MHz)	2× (698-960)	2× (1710-2170)
Polarization	±45°	
Gain(dBi)	16	17
Horizontal Beam width(°)	65	65
Vertical Beam width(°)	8	7
Electrical Down tilt (°)	2-12	2-12
Electrical Down tilt Deviation(°)	±1	
1st Upper Side-lobe Suppression(dB)	≤-12	≤-12
Front-To-Back Ratio,180°±30°(dB)	≥21	≥21
Cross-polar Discrimination@0°(dB)	≥15	≥15
Maximum Power per Port(W)	80	80
VSWR	≤1.5	
Isolation (dB)	≥25	
Intermodulation IM3 (dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



698MHz

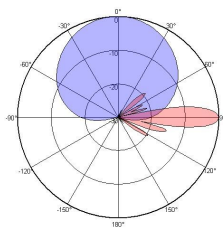


2690MHz

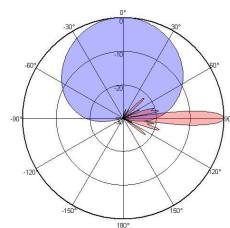
Mechanical specifications	
Antenna size(mm)	1950×416×164
Packing size(mm)	2100×520×275
Antenna weight(kg)	23.5
Mounting weigh(kg)	5.6
Packing weigh(kg)	35
Connector	8×7/16DIN-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-50~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

10 port,2L3H,13.5dBi,16.5dBi,Panel Antenna

Electrical specifications		
Frequency Range (MHz)	2× (698-960)	3× (1710-2170)
Polarization	±45°	
Gain(dBi)	13.5	16
Horizontal Beam width(°)	65	65
Vertical Beam width(°)	14	8
Electrical Down tilt (°)	0-14	0-10
Electrical Down tilt Deviation(°)	±1	
1st Upper Side-lobe Suppression(dB)	≤-12	≤-12
Front-To-Back Ratio,180°±30°(dB)	≥21	≥23
Cross-polar Discrimination@0°(dB)	≥15	≥15
Maximum Power per Port(W)	500	300
VSWR	≤1.5	
Isolation (dB)	≥28	
Intermodulation IM3 (dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



698MHz

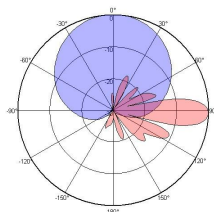


2690MHz

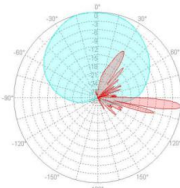
Mechanical specifications	
Antenna size(mm)	1550×468×192
Packing size(mm)	2330×540×280
Antenna weight(kg)	\
Mounting weigh(kg)	\
Packing weigh(kg)	\
Connector	10×7/16DIN-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-50~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

20 port FDD+TDD,15dBi,13dBi,Panel Antenna

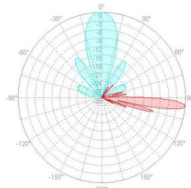
Electrical specifications	
Frequency Range (MHz)	698
Polarization(°)	±45°
Gain(dBi)	14.5
Horizontal Beam width(°)	65
Vertical Beam width(°)	14
Electrical Down tilt (°)	2-18
Electrical Down tilt Deviation(°)	±1
1st Upper Side-lobe Suppression(dB)	≤-16
Front-To-Back Ratio,180°±30°(dB)	≥25
Cross-polar Discrimination@0°(dB)	≥15
Maximum Power per Port(W)	250
VSWR	≤1.5
Isolation (dB)	≥28
Intermodulation IM3 (dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



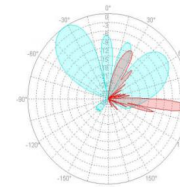
FDD:698MHz



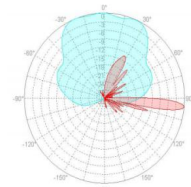
Single Column Beam



0° Service Beam



60° Service Beam



BCH Beam

TDD:2600MHz

Mechanical&Environmental specifications

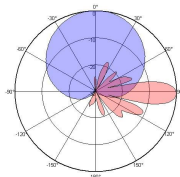
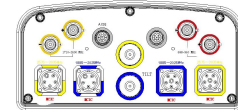
Antenna size(mm)	2340×322×106
Packing size(mm)	2440×420×203
Antenna weight(kg)	18
Mounting weigh(kg)	8
Packing weigh(kg)	40
Connector FDD L	2*7/16 DIN Female
Connector TDD FAD	2*(4pin+5pin) Cluster
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65
Adjustable pitch(°)	0-10
Others	Anti-corrosion, anti-rust

Electrical specifications				
Frequency Range (MHz)	1885~1920	2010~2025	2575~2635	
Connector	4*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)	25		25	
Downtilt(vertical plane) (°)	6			
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	65±15
	Gain (dBi)	≥11	≥12	≥13
	F/B ratio (dB)	≥23	≥23	≥25
	Cross polarization ratio(axial) (dB)	≥18		
	Cross polarization ratio@±60° (dB)	≥10		
	±60°edge beam power loss(dB)	/		
service beam	0°beam gain (dBi)	≥17	≥17	≥18
	0°beam horizontal HBW (°)	≤29	≤29	≥29
	0°beam side-lope level (dB)	≤-12		
	0°beam cross polarization (axial) (dB)	≥18		
	0°beam F/B ratio (dB)	/		
	±60°beam gain (dBi)	≥12		≥13
	±60°beam horizontal HPBW (°)	<37		
	±60°beam side-lope level (dB)	≤-5		
	Cross -polarization ratio(axial) (dB)	22		
	F/B ratio (dB)	33		

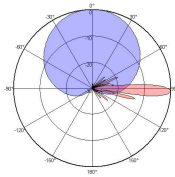
broadcast beam	Gain (dBi)	11			12			13		
	Power ratio of $\pm 32.5^\circ$ sector (%)									
	Power ratio of $\pm 60^\circ$ sector (%)									
	Horizontal HPBW ($^\circ$)	65 \pm 5			65 \pm 5			65 \pm 5		
	Vertical HPBW ($^\circ$)	14			14			12		
	Cross-polarization ratio(axial) (dB)	≥ 20								
	Cross-polarization@ $\pm 60^\circ$ (dB)	≥ 10								
	F/B ratio (dB)	≥ 30								
	1 st upper side-lobe suppression(dB)	≤ -15								
	1 st lower null-fill (dB)	/								
	$\pm 60^\circ$ edge beam power loss(dB)	12 \pm 3								
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		
D band 65°broadcast beam weighted value										
port	1	2	3	4	5	6	7	8		
Phase ($^\circ$)	-110	0	0	-110	-110	0	0	-110		
Amplitude	0.4	1	1	0.4	0.4	1	1	0.4		

22 port FDD+TDD,15dBi,13dBi,Panel Antenna

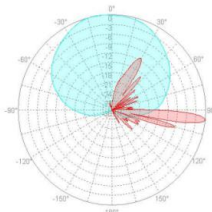
Electrical specifications		
Frequency Range (MHz)	698-960	1710-2690
Polarization(°)	±45	±45
Gain(dBi)	12	14
Horizontal Beam width(°)	65	65
Vertical Beam width(°)	20	13
Electrical Down tilt (°)	2-12	2-12
Electrical Down tilt Deviation(°)	±1	
1st Upper Side-lobe Suppression(dB)	≤-10	≤-13
Front-To-Back Ratio,180°±30°(dB)	≥21	
Cross-polar Discrimination@0°(dB)	≥15	
Maximum Power per Port(W)	250	
VSWR	≤1.5	
Isolation (dB)	≥28	
Intermodulation IM3 (dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



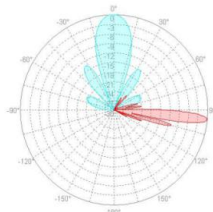
FDD:698MHz



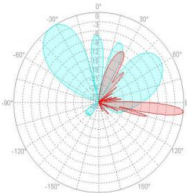
2690MHz



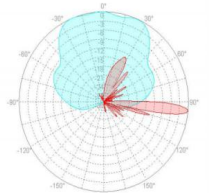
Single Column Beam



0° Service Beam



60° Service Beam



BCH Beam

TDD:2600MHz

Mechanical&Environmental specifications

Antenna size(mm)	2200×322×150
Packing size(mm)	2440×420×203
Antenna weight(kg)	18
Mounting weigh(kg)	8
Packing weigh(kg)	40
Connector FDD L+H	4*7/16 DIN Female
Connector TDD FAD	2*Cluster(4+5pin)
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)	1885~1920	2010~2025	2575~2635	
Connector	2*cluster (4+5pin)			
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	65±15
	Gain (dBi)	≥13.5	≥14.5	≥15.5
	F/B ratio (dB)	≥21	≥21	≥21
	Cross polarization ratio(axial) (dB)	≥18		
	Cross polarization ratio@±60° (dB)	≥6		
	±60°edge beam power loss(dB)	12±2		
service beam	0°beam gain (dBi)	≥19.5	≥20	≥21
	0°beam horizontal HBW (°)	≤29	≤26	≤25
	0°beam side-lope level (dB)	≤-12		
	0°beam cross polarization (axial) (dB)	≥22		
	0°beam F/B ratio (dB)	≥28		
	±60°beam gain (dBi)	>16		
	±60°beam horizontal HPBW (°)	<32		
	±60°beam side-lope level (dB)	≤-5		
	Cross -polarization ratio(axial) (dB)	15		
F/B ratio (dB)	<32			

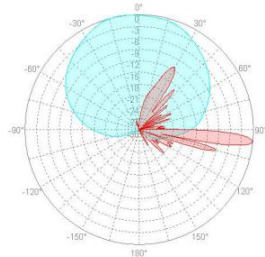
broadcast beam	Gain (dBi)	≥13.5		≥14.5		≥15.5		
	Power ratio of ± 32.5 °sector (%)	/						
	Power ratio of ± 60 °sector (%)	/						
	Horizontal HPBW (°)	65±5		65±5		65±5		
	Vertical HPBW (°)	7		7		7		
	Cross-polarization ratio(axial) (dB)	≥22						
	Cross-polarization@±60° (dB)	≥10						
	F/B ratio (dB)	≥28						
	1 st upper side-lobe suppression(dB)	≤-16						
	1 st lower null-fill (dB)	≥-18						
	±60°edge beam power loss(dB)	12±2						
FA band 65°broadcast beam weighted value								
port	1	2	3	4	5	6	7	8
Phase (°)	0	-3	-3	177	0	-3	-3	177
Amplitude	0.46	1	1	0.61	0.46	1	1	0.61
D band 65°broadcast beam weighted value								
port	1	2	3	4	5	6	7	8
Phase (°)	-110	0	0	-110	-110	0	0	-110
Amplitude	0.4	1	1	0.4	0.4	1	1	0.4

8 port TDD,1880-2025MHz,15dBi,Panel Antenna

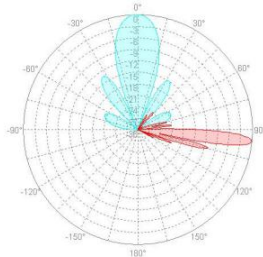
Electrical specifications			
Frequency Range (MHz)	1885~1920	2010~2025	
Connector	N-F(8+1)		
Input impedance(Ω)	50		
All ports & calibration port: VSWR	<1.5		
Co-polar isolation(dB)	≥ 25		
Cross-polar isolation(dB)	≥ 25		
Continuous carrier power per port(W)	25	25	
Downtilt(vertical plane)($^{\circ}$)	6		
Downtilt(vertical plane) accuracy($^{\circ}$)	± 1		
Calibration port-all port: coupling(dB)	-26 \pm 2		
Calibration port-all port max.amplitude offset(dB)	<0.7		
Calibration port-all port max.phase offset($^{\circ}$)	<5		
Element beam	Vertical half power beam-width($^{\circ}$)	7 \pm 2	
	The 1 st upside lobe suppression(dB)	/	
	The 1 st lower null-fill(dB)	/	
	Horizontal half power beam-width($^{\circ}$)	100 \pm 5	90 \pm 15
	Gain(dBi)	≥ 14	≥ 15
	F/B ratio(dB)	≥ 23	≥ 23
	Cross polarization ratio(axial)(dB)	≥ 15	
	Cross polarization ratio@ $\pm 60^{\circ}$ (dB)	≥ 10	
	$\pm 60^{\circ}$ edge beam power loss(dB)	/	
service beam	0 $^{\circ}$ beam gain(dBi)	≥ 20	≥ 21
	0 $^{\circ}$ beam horizontal HBW($^{\circ}$)	≤ 29	≤ 26
	0 $^{\circ}$ beam side-lobe level(dB)	≤ -12	
	0 $^{\circ}$ beam cross polarization (axial)(dB)	≥ 18	
	0 $^{\circ}$ beam F/B ratio(dB)	≥ 28	
	$\pm 60^{\circ}$ beam gain(dBi)	≥ 17.5	
	$\pm 60^{\circ}$ beam horizontal HPBW($^{\circ}$)	<32	
	$\pm 60^{\circ}$ beam side-lobe level(dB)	≤ -5	
	Cross -polarization ratio(axial)(dB)	/	
	F/B ratio(dB)	/	

broadcast beam	Gain(dBi)			≥16			≥15	
	Power ratio of ± 32.5 °sector (%)			72±7			/	
	Power ratio of ± 60 °sector (%)			≥95			/	
	Horizontal HPBW(°)			/			65±6	
	Vertical HPBW(°)			≥7			≥6.5	
	Cross-polarization ratio(axial)(dB)			≥18			≥18	
	Cross-polarization@±60°(dB)					≥10		
	F/B ratio(dB)					≥25		
	1 st upper side-lobe suppression(dB)					≤-15		
	1 st lower null-fill(dB)					/		
	±60°edge beam power loss(dB)					12±3		
FA band 65°broadcast beam weighted value								
port	1	2	3	4	5	6	7	8
Phase(°)	0	-3	-3	177	0	-3	-3	177
Amplitude	0.46	1	1	0.61	0.46	1	1	0.61
D band 65°broadcast beam weighted value								
port	/	/	/	/	/	/	/	/
Phase(°)	/	/	/	/	/	/	/	/
Amplitude	/	/	/	/	/	/	/	/
Mechanical parameters								
Antenna size(mm)								1400×318×105
Number of antenna								1 set
Antenna weight(kg)								15.2
Lightning Protection								DC grounded
Installation								Ground base+expansion bolts anchoring
Maintenance								Maintenance gate
Radome Material								PVC
Adjustable pitch(°)								0-10
Environmental requirements								
Operating Temperature(℃)								-40~ +60
Operating Humidity(%)								≤95
Wind resistance(km/h)								Ultimate 210
Waterproof grade								IP65
Others								Anti-corrosion, anti-rust

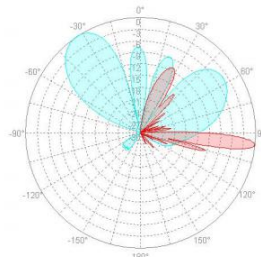
2600MHz



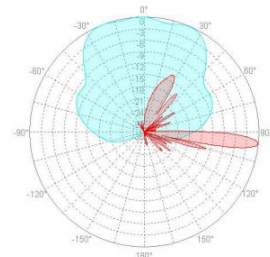
Single Column Beam



0° Service Beam



60° Service Beam



BCH Beam

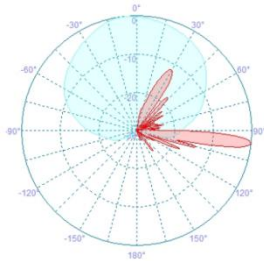


8 port TDD,2300-2400MHz15.5dBi,Panel Antenna

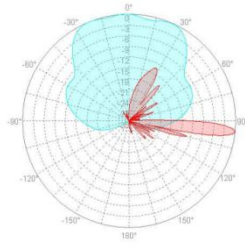
Electrical specifications		
Frequency Range (MHz)		2300~2400
Connector		N-F(8+1)
Input impedance(Ω)		50
All ports & calibration port: VSWR		<1.5
Co-polar isolation(dB)		≥ 25
Cross-polar isolation(dB)		≥ 25
Continuous carrier power per port(W)		25
Downtilt(vertical plane)($^{\circ}$)		6
Downtilt(vertical plane) accuracy($^{\circ}$)		± 1
Calibration port-all port: coupling(dB)		-26 \pm 2
Calibration port-all port max.amplitude offset(dB)		<0.7
Calibration port-all port max.phase offset($^{\circ}$)		<5
Element beam	Vertical half power beam-width($^{\circ}$)	7 \pm 2
	The 1 st upside lobe suppression(dB)	/
	The 1 st lower null-fill(dB)	/
	Horizontal half power beam-width($^{\circ}$)	65 \pm 15
	Gain(dBi)	≥ 15.5
	F/B ratio(dB)	≥ 25
	Cross polarization ratio(axial)(dB)	≥ 15
	Cross polarization ratio@ $\pm 60^{\circ}$ (dB)	≥ 10
	$\pm 60^{\circ}$ edge beam power loss(dB)	12 \pm 3
service beam	0 $^{\circ}$ beam gain(dBi)	≥ 22
	0 $^{\circ}$ beam horizontal HBW($^{\circ}$)	≤ 25
	0 $^{\circ}$ beam side-lobe level(dB)	≤ -12
	0 $^{\circ}$ beam cross polarization (axial)(dB)	≥ 18
	0 $^{\circ}$ beam F/B ratio(dB)	≥ 28
	$\pm 60^{\circ}$ beam gain(dBi)	≥ 17.5
	$\pm 60^{\circ}$ beam horizontal HPBW($^{\circ}$)	<32
	$\pm 60^{\circ}$ beam side-lobe level(dB)	≤ 0
	Cross -polarization ratio(axial)(dB)	/
	F/B ratio(dB)	/

broadcast beam	Gain(dBi)	≥16							
	Power ratio of ± 32.5 °sector (%)	/							
	Power ratio of ± 60 °sector (%)	/							
	Horizontal HPBW(°)	/							
	Vertical HPBW(°)	≥5							
	Cross-polarization ratio(axial)(dB)	/							
	Cross-polarization@±60°(dB)	≥10							
	F/B ratio(dB)	≥25							
	1 st upper side-lobe suppression(dB)	≤-15							
	1 st lower null-fill(dB)	/							
	±60°edge beam power loss(dB)	12±3							
FA band 65°broadcast beam weighted value									
port	1	2	3	4	5	6	7	8	
Phase(°)	/	/	/	/	/	/	/	/	
Amplitude	/	/	/	/	/	/	/	/	
D band 65°broadcast beam weighted value									
port	1	2	3	4	5	6	7	8	
Phase(°)	-110	0	0	-110	-110	0	0	-110	
Amplitude	0.4	1	1	0.4	0.4	1	1	0.4	
Mechanical parameters									
Antenna size(mm)	1400×318×105								
Number of antenna	1 set								
Antenna weight(kg)	15.2								
Lightning Protection	DC grounded								
Installation	Ground base+expansion bolts anchoring								
Maintenance	Maintenance gate								
Radome Material	PVC								
Adjustable pitch(°)	0-10								
Environmental requirements									
Operating Temperature(°C)	-40~ +65								
Operating Humidity(%)	≤95								
Wind resistance(km/h)	Ultimate 200								
Waterproof grade	IP65								
Others	Anti-corrosion, anti-rust								

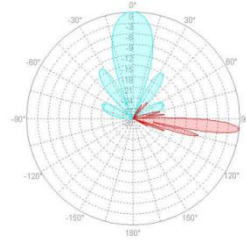
2350MHz



Single Column Beam



BCH Beam



0° Service Beam

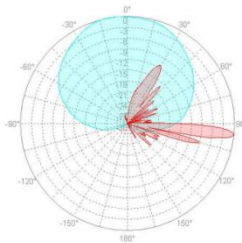


8 port TDD,1885-2635MHz,15dBi,Panel Antenna

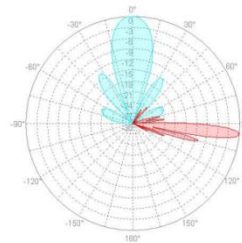
Electrical specifications				
Frequency Range (MHz)	1885~1920	2010~2025	2575~2635	
Connector	N-F(8+1)			
Input impedance(Ω)	50			
All ports & calibration port: VSWR	<1.5			
Co-polar isolation(dB)	≥ 25			
Cross-polar isolation(dB)	≥ 25			
Continuous carrier power per port(W)	≥ 25			
Downtilt(vertical plane)($^{\circ}$)	6			
Downtilt(vertical plane) accuracy($^{\circ}$)	± 1			
Calibration port-all port: coupling(dB)	-26 \pm 2			
Calibration port-all port max.amplitude offset(dB)	<0.7			
Calibration port-all port max.phase offset($^{\circ}$)	<5			
Element beam	Vertical half power beam-width($^{\circ}$)	7 \pm 2		
	The 1 st upside lobe suppression(dB)	/		
	The 1 st lower null-fill(dB)	/		
	Horizontal half power beam-width($^{\circ}$)	100 \pm 5	90 \pm 15	65 \pm 15
	Gain(dBi)	≥ 14	≥ 15	≥ 15.5
	F/B ratio(dB)	≥ 23	≥ 23	≥ 25
	Cross polarization ratio(axial)(dB)	≥ 15		
	Cross polarization ratio@ $\pm 60^{\circ}$ (dB)	≥ 10		
	$\pm 60^{\circ}$ edge beam power loss(dB)	/		
service beam	0 $^{\circ}$ beam gain(dBi)	≥ 20	≥ 21	≥ 15.5
	0 $^{\circ}$ beam horizontal HBW($^{\circ}$)	≤ 29	≤ 26	≥ 25
	0 $^{\circ}$ beam side-lobe level(dB)	≤ -12		
	0 $^{\circ}$ beam cross polarization (axial)(dB)	≥ 18		
	0 $^{\circ}$ beam F/B ratio(dB)	≥ 28		
	$\pm 60^{\circ}$ beam gain(dBi)	≥ 17.5		
	$\pm 60^{\circ}$ beam horizontal HPBW($^{\circ}$)	<32		
	$\pm 60^{\circ}$ beam side-lobe level(dB)	≤ -5		
	Cross -polarization ratio(axial)(dB)	/		
	F/B ratio(dB)	/		

broadcast beam	Gain(dBi)			≥16			≥15	
	Power ratio of ± 32.5 °sector (%)			72±7			/	
	Power ratio of ± 60 °sector (%)			≥95			/	
	Horizontal HPBW(°)			/			65±6	
	Vertical HPBW(°)			≥7			≥6.5	
	Cross-polarization ratio(axial)(dB)			≥18			≥18	
	Cross-polarization@±60°(dB)							≥10
	F/B ratio(dB)							≥25
	1 st upper side-lobe suppression(dB)							≤-15
	1 st lower null-fill(dB)							/
	±60°edge beam power loss(dB)							12±3
FA band 65°broadcast beam weighted value								
port	1	2	3	4	5	6	7	8
Phase(°)	0	-3	-3	177	0	-3	-3	177
Amplitude	0.46	1	1	0.61	0.46	1	1	0.61
D band 65°broadcast beam weighted value								
port	1	2	3	4	5	6	7	8
Phase(°)	-110	0	0	-110	-110	0	0	-110
Amplitude	0.4	1	1	0.4	0.4	1	1	0.4
Mechanical parameters								
Antenna size(mm)								1150×322×106
Number of antenna								1 set
Antenna weight(kg)								13.2
Lightning Protection								DC grounded
Installation								Ground base+expansion bolts anchoring
Maintenance								Maintenance gate
Radome Material								PVC
Adjustable pitch(°)								0-10
Environmental requirements								
Operating Temperature(°C)								-40~ 60
Operating Humidity(%)								≤95
Wind resistance(km/h)								210
Waterproof								IP65
Others								Anti-corrosion, anti-rust

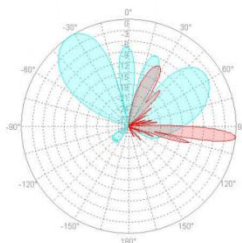
2600MHz



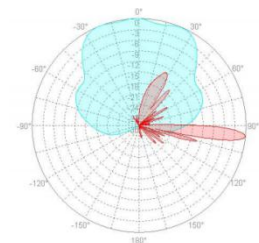
Single Column Beam



0° Service Beam



60° Service Beam



BCH Beam

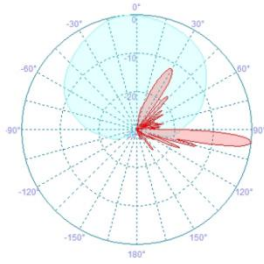


8 port TDD,3300-3800MHz,15dBi,Panel Antenna

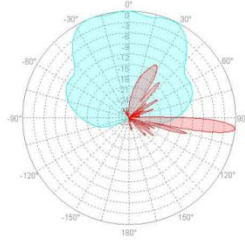
Electrical specifications				
Frequency Range (MHz)		3300-3800		
Connector		N-F(8+1)		
Input impedance(Ω)		50		
All ports & calibration port: VSWR		<1.5		
Co-polar isolation(dB)		≥ 25		
Cross-polar isolation(dB)		≥ 25		
Continuous carrier power per port(W)		≥ 25		
Downtilt(vertical plane)($^{\circ}$)		6		
Downtilt(vertical plane) accuracy($^{\circ}$)		± 1		
Calibration port-all port: coupling(dB)		-26 \pm 2		
Calibration port-all port max.amplitude offset(dB)		<0.7		
Calibration port-all port max.phase offset($^{\circ}$)		<5		
Element beam	Vertical half power beam-width($^{\circ}$)	7 \pm 2		
	The 1 st upside lobe suppression(dB)	/		
	The 1 st lower null-fill(dB)	/		
	Horizontal half power beam-width($^{\circ}$)	100 \pm 5	90 \pm 15	65 \pm 15
	Gain(dBi)	≥ 14	≥ 15	≥ 15.5
	F/B ratio(dB)	≥ 23	≥ 23	≥ 25
	Cross polarization ratio(axial)(dB)	≥ 15		
	Cross polarization ratio@ $\pm 60^{\circ}$ (dB)	≥ 10		
	$\pm 60^{\circ}$ edge beam power loss(dB)	/		
service beam	0 $^{\circ}$ beam gain(dBi)	≥ 20	≥ 21	≥ 15.5
	0 $^{\circ}$ beam horizontal HBW($^{\circ}$)	≤ 29	≤ 26	≥ 25
	0 $^{\circ}$ beam side-lobe level(dB)	≤ -12		
	0 $^{\circ}$ beam cross polarization (axial)(dB)	≥ 18		
	0 $^{\circ}$ beam F/B ratio(dB)	≥ 28		
	$\pm 60^{\circ}$ beam gain(dBi)	≥ 17.5		
	$\pm 60^{\circ}$ beam horizontal HPBW($^{\circ}$)	<32		
	$\pm 60^{\circ}$ beam side-lobe level(dB)	≤ -5		
	Cross -polarization ratio(axial)(dB)	/		
	F/B ratio(dB)	/		

broadcast beam	Gain(dBi)			≥16			≥15		
	Power ratio of ± 32.5 °sector (%)			72±7			/		
	Power ratio of ± 60 °sector (%)			≥95			/		
	Horizontal HPBW(°)			/			65±6		
	Vertical HPBW(°)			≥7			≥6.5		
	Cross-polarization ratio(axial)(dB)			≥18			≥18		
	Cross-polarization@±60°(dB)					≥10			
	F/B ratio(dB)					≥25			
	1 st upper side-lobe suppression(dB)					≤-15			
	1 st lower null-fill(dB)					/			
	±60°edge beam power loss(dB)					12±3			
FA band 65°broadcast beam weighted value									
port	1	2	3	4	5	6	7	8	
Phase(°)	0	-3	-3	177	0	-3	-3	177	
Amplitude	0.46	1	1	0.61	0.46	1	1	0.61	
D band 65°broadcast beam weighted value									
port	1	2	3	4	5	6	7	8	
Phase(°)	-110	0	0	-110	-110	0	0	-110	
Amplitude	0.4	1	1	0.4	0.4	1	1	0.4	
Mechanical parameters									
Antenna size(mm)	1150×322×106								
Number of antenna	1 set								
Antenna weight(kg)	13.2								
Lightning Protection	DC grounded								
Installation	Ground base+expansion bolts anchoring								
Maintenance	Maintenance gate								
Radome Material	PVC								
Adjustable pitch(°)	0-10								
Environmental requirements									
Operating Temperature(℃)	-40~ 60								
Operating Humidity(%)	≤95								
Wind resistance(km/h)	210								
Waterproof	IP65								
Others	Anti-corrosion, anti-rust								

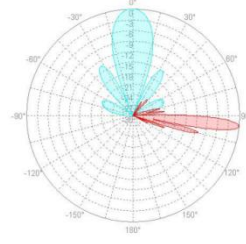
3500MHz



Single Column Beam



BCH Beam



0° Service Beam

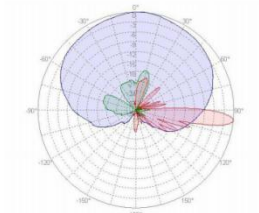


18 port TDD,14dBi,Panel Antenna

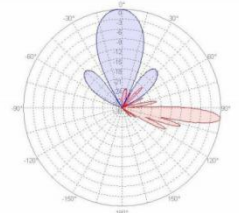
Electrical specifications				
Frequency Range (MHz)	1885~1920	2010~2025	2575~2635	
Connector	2×Cluster(4+5pin)			
Input impedance(Ω)	50			
All ports & calibration port: VSWR	<1.5			
Co-polar isolation(dB)	≥25			
Cross-polar isolation(dB)	≥25			
Continuous carrier power per port(W)	25	25	50	
Downtilt(vertical plane)(°)	6			
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	65±15
	Gain(dBi)	≥14	≥15	≥15.5
	F/B ratio(dB)	≥23	≥23	≥25
	Cross polarization ratio(axial)(dB)	≥18		
	Cross polarization ratio@±60 °(dB)	≥10		
	±60°edge beam power loss(dB)	/	/	100~15
service beam	0°beam gain(dBi)	≥20	≥21	≥22
	0°beam horizontal HBW(°)	≤29	≤28	≤28
	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)	≥17.5		
	±60°beam horizontal HPBW(°)	<32	<32	<23
	±60°beam side-lobe level(dB)	≤-5		
	Cross -polarization ratio(axial)(dB)	/		
	F/B ratio(dB)	/		
broadcast beam	Gain(dBi)	≥14	≥15	≥16
	Power ratio of ± 32.5 °sector (%)	/		
	Power ratio of ± 60 °sector (%)	/		

	Horizontal HPBW(°)				65±6			
	Vertical HPBW(°)				≥7	≥6.5	≥5	
	Cross-polarization ratio(axial)(dB)				≥22	≥22	/	
	Cross-polarization@±60°(dB)				≥10			
	F/B ratio(dB)				≥25			
	1 st upper side-lope suppression(dB)				≤-16			
	1 st lower null-fill(dB)				≥-18			
	±60°edge beam power loss(dB)				10-15			
FA band 65°broadcast beam weighted value								
port	1	2	3	4	5	6	7	8
Phase(°)	0	-3	-3	177	0	-3	-3	177
Amplitude	0.46	1	1	0.61	0.46	1	1	0.61
D band 65°broadcast beam weighted value								
port	1	2	3	4	5	6	7	8
Phase(°)	-110	0	0	-110	-110	0	0	-110
Amplitude	0.4	1	1	0.4	0.4	1	1	0.4
Mechanical parameters								
Antenna size(mm)				1405×322×106				
Number of antenna				1 set				
Antenna weight(kg)				12				
Lightning Protection				DC grounded				
Installation				Ground base+expansion bolts anchoring				
Maintenance				Maintenance gate				
Radome Material				PVC				
Adjustable pitch(°)				0-10				
Environmental requirements								
Operating Temperature(°C)				-40~ +65				
Operating Humidity(%)				≤95				
Wind resistance(km/h)				200				
Waterproof				IP65				
Others				Anti-corrosion, anti-rust				

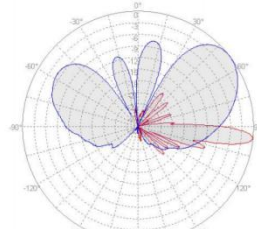
2015MHz



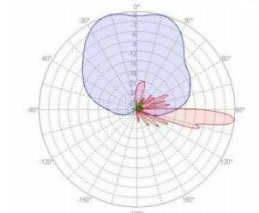
Single Column Beam



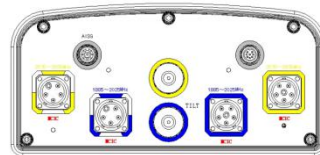
0° Service Beam



60° Service Beam



BCH Beam



2. Camouflage Antenna

Camouflage Antenna



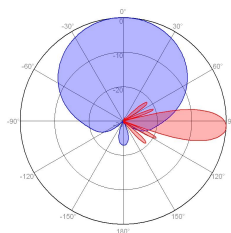
Camouflage



- ☆ Beautiful appearance
- ☆ Wide band

6 port, 1H, 1710-2690MHz, 16.5dBi, Tri-sector Cluster Antenna

Electrical specifications	
Frequency Range (MHz)	1710-2690
Polarization	±45°
Gain(dBi)	16.5
Horizontal Beam width(°)	65±5
Vertical Beam width(°)	7±2
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)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground

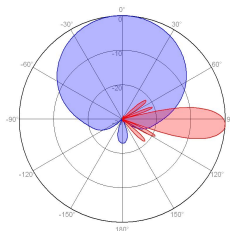


2690MHz

Mechanical specifications	
Antenna size(mm)	Φ 280×1550
Packing size(mm)	350×350×1610
Antenna weight(kg)	22.6
Mounting weigh(kg)	5.5
Packing weigh(kg)	27
Connector	6×4.3-10-Female
Connector Location	Bottom
Radome Material	UPVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

12 port,2H,1710-2690MHz,16.5dBi,Tri-sector Cluster Antenna

Electrical specifications	
Frequency Range (MHz)	1710-2690*2
Polarization	±45°
Gain(dBi)	16.5
Horizontal Beam width(°)	65±5
Vertical Beam width(°)	7±2
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)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground

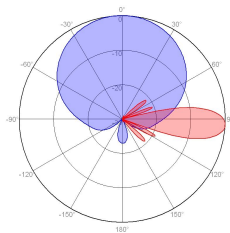


2690MHz

Mechanical specifications	
Antenna size(mm)	Φ 450×1550
Packing size(mm)	520×520×1610
Antenna weight(kg)	22.6
Mounting weigh(kg)	5.5
Packing weigh(kg)	27
Connector	12×4.3-10-Female
Connector Location	Bottom
Radome Material	UPVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

18 port, 1L2H, 698-960/1710-2690MHz, 15.5dBi, 17.5dBi, Tri-sector Cluster Antenna

Electrical specifications		
Frequency Range (MHz)	698-960	1710-2690*2
Polarization	±45°	±45°
Gain(dBi)	15.5	17.5
Horizontal Beam width(°)	65±5	65±5
Vertical Beam width(°)	11±2	7±2
Electrical Down tilt (°)	2-12	2-12
Electrical Down tilt Deviation(°)	± 1	± 1
1st Upper Side-lobe Suppression(dB)	≤-16	≤-16
Front-To-Back Ratio, 180°±30°(dB)	≥23	≥23
Cross-polar Discrimination@0°(dB)	≥15	≥15
Maximum Power per Port(W)	350	250
VSWR	≤1.5	
Isolation (dB)	≥26	
Intermodulation IM3(dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	

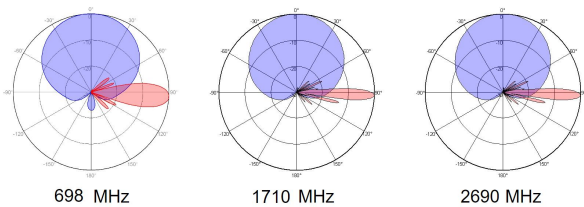


2690MHz

Mechanical specifications	
Antenna size(mm)	Φ 540×2320
Packing size(mm)	2450×635×635
Antenna weight(kg)	86
Mounting weigh(kg)	13
Packing weigh(kg)	105
Connector	12×4.3-10-Female
Connector Location	Bottom
Radome Material	UPVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

4 port,1L1H,14.5dBi,17.5dBi,Panel Antenna

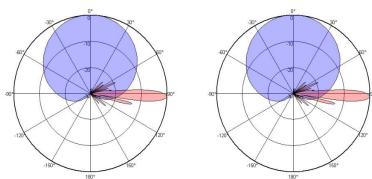
Electrical specifications		
Frequency Range (MHz)	698-960	1710-2690
Polarization	±45°	
Gain(dBi)	14.5	17.5
Horizontal Beam width(°)	65±5	65±5
Vertical Beam width(°)	14	7
Electrical Down tilt (°)	2-12	2-12
Electrical Down tilt Deviation(°)	± 1	
1st Upper Side-lobe Suppression(dB)	≤-16	≤-16
Front-To-Back Ratio,180°±30°(dB)	≥25	≥25
Cross-polar Discrimination@0°(dB)	≥15	≥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	



Mechanical specifications	
Antenna size(mm)	400×400×1600
Packing size(mm)	500×500×1850
Antenna weight(kg)	40
Mounting weigh(kg)	15
Packing weigh(kg)	58
Connector	4×7/16DIN-Female
Connector Location	Bottom
Radome Material	FRP
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

4 port,2H,16.5dBi,Panel Antenna

Electrical specifications	
Frequency Range (MHz)	1710-2690*2
Polarization	±45°
Gain(dBi)	16.5
Horizontal Beam width(°)	65±5
Vertical Beam width(°)	7
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)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



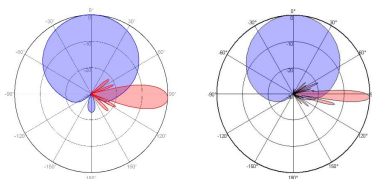
1710MHz

2690MHz

Mechanical specifications	
Antenna size(mm)	950×320×1900
Packing size(mm)	1030×450×2100
Antenna weight(kg)	47
Mounting weigh(kg)	15
Packing weigh(kg)	62
Connector	4×7/16DIN-Female
Connector Location	Bottom
Radome Material	Fiberglass
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

6 port,1L2H,14.5dBi,16.5dBi,Panel Antenna

Electrical specifications		
Frequency Range (MHz)	698-960	1710-2690*2
Polarization	±45°	±45°
Gain(dBi)	14.5	16.5
Horizontal Beam width(°)	65±5	65±5
Vertical Beam width(°)	14	7
Electrical Down tilt (°)	2-12	2-12
Electrical Down tilt Deviation(°)	± 1	± 1
1st Upper Side-lobe Suppression(dB)	≤-16	≤-16
Front-To-Back Ratio,180°±30°(dB)	≥25	≥25
Cross-polar Discrimination@0°(dB)	≥15	≥15
Maximum Power per Port(W)	350	250
VSWR	≤1.5	
Isolation (dB)	≥26	
Intermodulation IM3(dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



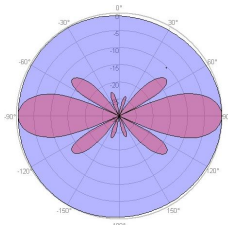
698MHz

2690

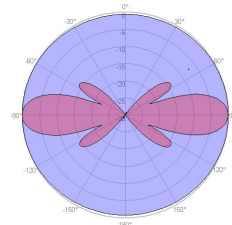
Mechanical specifications	
Antenna size(mm)	950×320×1900
Packing size(mm)	1030×450×2100
Antenna weight(kg)	62
Mounting weigh(kg)	15
Packing weigh(kg)	68
Connector	6×7/16DIN-Female
Connector Location	Bottom
Radome Material	Fiberglass
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

2 port, 1L1H, 9dBi, 10dBi, Omni Antenna

Electrical specifications		
Frequency Range (MHz)	698-960	1710-2690
Polarization	Vertical	
Gain(dBi)	9	10
Horizontal Beam width(°)	360	360
Vertical Beam width(°)	24	20
Electrical Down tilt (°)	2-12	2-10
Electrical Down tilt Deviation(°)	± 1	
1st Upper Side-lobe Suppression(dB)	≤-16	≤-16
Front-To-Back Ratio, 180°±30°(dB)	≥25	≥25
Cross-polar Discrimination@0°(dB)	/	/
Maximum Power per Port(W)	250	
VSWR	≤1.5	
Isolation (dB)	/	
Intermodulation IM3(dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



698MHz

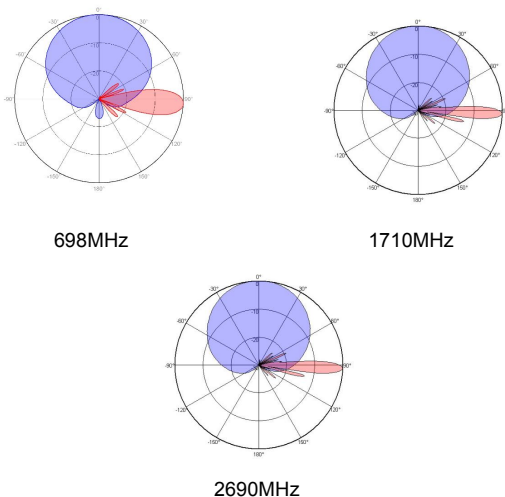


2690MHz

Mechanical specifications	
Antenna size(mm)	φ280×1000
Packing size(mm)	450×450×1300
Antenna weight(kg)	50
Mounting weigh(kg)	15
Packing weigh(kg)	68
Connector	2×7/16DIN-Female
Connector Location	Bottom
Radome Material	PVC
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

4 port,1L1H,14.5dBi,17.5dBi,Panel Antenna

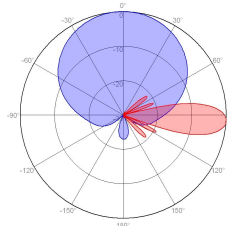
Electrical specifications		
Frequency Range (MHz)	698-960	1710-2690
Polarization(°)	±45	
Gain(dBi)	14.5	17.5
Horizontal Beam width(°)	65±5	65±5
Vertical Beam width(°)	14	7
Electrical Down tilt (°)	2-12	2-12
Electrical Down tilt Deviation(°)	± 1	
1st Upper Side-lobe Suppression(dB)	≤-16	≤-16
Front-To-Back Ratio,180°±30°(dB)	≥25	≥25
Cross-polar Discrimination@0°(dB)	≥15	≥15
Maximum Power per Port(W)	250	
VSWR	≤1.5	
Isolation (dB)	/	
Intermodulation IM3(dBc)	≤-150(@2*43dBm)	
Impedance(Ω)	50	
Lightning Protection	DC Ground	



Mechanical specifications	
Antenna size(mm)	950×320×1900
Packing size(mm)	1200×420×2100
Antenna weight(kg)	50
Mounting weigh(kg)	15
Packing weigh(kg)	68
Connector	4×7/16DIN-Female
Connector Location	Bottom
Radome Material	FRP
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

2 port, 1L, 14.5dBi, Panel Antenna

Electrical specifications	
Frequency Range (MHz)	698-960
Polarization	±45°
Gain(dBi)	14.5
Horizontal Beam width(°)	65±5
Vertical Beam width(°)	14
Electrical Down tilt (°)	2-18
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)	≥26
Intermodulation IM3(dBc)	≤-150(@2*43dBm)
Impedance(Ω)	50
Lightning Protection	DC Ground



698MHz

Mechanical specifications	
Antenna size(mm)	Φ 400×2000
Packing size(mm)	550×550×2300
Antenna weight(kg)	40
Mounting weigh(kg)	15
Packing weigh(kg)	58
Connector	2×7/16DIN-Female
Connector Location	Bottom
Radome Material	Fiberglass
Radome Color	Gray
Operating Temperature(°C)	-40~65
Operating Humidity(%)	≤95
Wind resistance(km/h)	210
Waterproof	IP65

1 port,806-9960/1710-2700MHz,8dBi,Camouflage Antenna

Applications:

- 806-2700MHz
- Outdoor

Features:

- Wide band
- Camouflage antenna

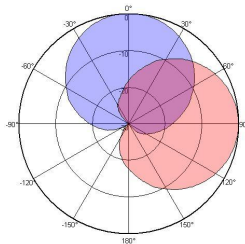
Connector:

- 4.3-10 Female with cable

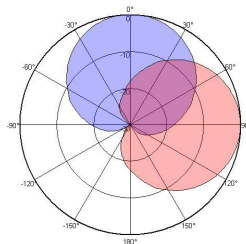


Electrical specifications

Frequency range (MHz)	806-960	1710-2700
Polarization	H+V	
Gain(dBi)	6.5	8
Horizontal beam-width(°)	60	
3dB Vertical beam-width(°)	60	
Front-To-Back Ratio, 180°±30°(dB)	10	
Port Isolation	≥ 12dB	≥ 15dB
VSWR	≤ 1.5	
Intermodulation IM3(dBc)	-140dBc(@2x43dBm)	
Impedance(Ω)	50	
Maximum input power(W)	100	
Lightning protection	DC grounded	



806MHz



2700MH

Mechanical specifications

Connector	2×4.3-10 Female
Connector position	Bottom
Size(mm)	470×190×120
Gross weight(kg)	2.5
Wind resistance(km/h)	200
Reflector material	Aluminium
Radome material	P.P
Radome color	Black
Operating temperature(°C)	-40~65
Waterproof	IP65

1 port,1*(L+H),7dBi,Omnidirectional Antenna

Applications:

- 698-2690MHz
- Outdoor Signal Coverage

Features:

- Beautiful appearance
- Wide band

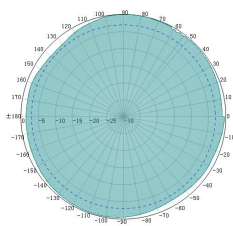
Connector:

- N Female,with 1m cable

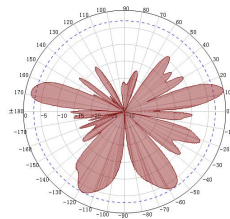


Electrical specifications

Frequency range (MHz)	698-960	1710-2690
Polarization	Vertical	Vertical
Gain(dBi)	4.5	7
Horizontal beam-width(°)	360	360
3dB Vertical beam-width(°)	23-37	18-21
VSWR	≤1.5	
Non-circularity	±4	
Impedance(Ω)	50	
Maximum input power(W)	50	
Lightning protection	DC grounded	



H-Plane



E-Plane

Mechanical specifications

Connector	N Female
Connector position	Bottom
Size(mm)	Φ140×850
Gross weight(kg)	3.1
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	PVC
Radome color	Gray
Operating temperature(°C)	-40~65
Waterproof	IP65

2 port, 2*(L+H), 8dBi, Omni t Antenna

Applications:

- 698-2690MHz
- Outdoor Signal Coverage

Features:

- Beautiful appearance
- Wide band

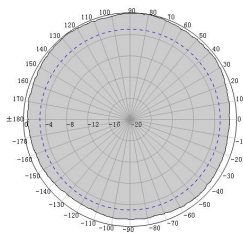
Connector:

- N Female, with 1m cable

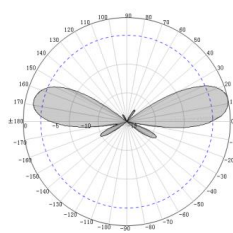


Electrical specifications

Frequency range (MHz)	698-960	1710-2690
Polarization	Vertical	Vertical
Gain(dBi)	6	8
Horizontal beam-width(°)	360	360
3dB Vertical beam-width(°)	22-25	13-16
VSWR	≤1.5	
Non-circularity	±2	
Impedance(Ω)	50	
Maximum input power(W)	50	
Lightning protection	DC grounded	



H-Plane



E-Plane

Mechanical specifications

Connector	2×N Female
Connector position	Bottom
Size(mm)	Φ76×1870
Gross weight(kg)	3.1
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	FRP
Radome color	Black
Operating temperature(°C)	-40~65
Waterproof	IP65

1 port,1*(L+H),10dBi,Panel Antenna

Applications:

- 698-2690MHz
- Outdoor Signal Coverage

Features:

- Beautiful appearance
- Wide band

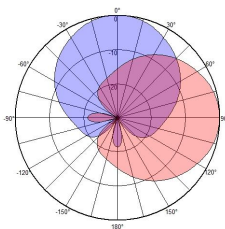
Connector:

- N Female

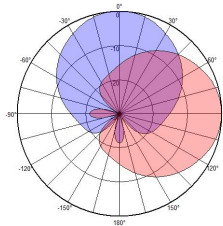


Electrical specifications

Frequency range (MHz)	698-960	1710-2690
Polarization	Vertical	Vertical
Gain(dBi)	8	10
Horizontal beam-width(°)	58-68	43-53
3dB Vertical beam-width(°)	65-75	59-65
VSWR	≤1.5	
Front to Back Ratio	≥15	
Impedance(Ω)	50	
Maximum input power(W)	50	
Lightning protection	DC grounded	



698MHz



2690MHz

Mechanical specifications

Connector	N Female
Connector position	Bottom
Size(mm)	905×200×1182
Gross weight(kg)	6
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	FRP
Radome color	Blue
Operating temperature(°C)	-40~60
Waterproof	IP65

1 port,1*(L+H),10dBi,Panel Antenna

Applications:

- 698-2690MHz
- Outdoor Signal Coverage

Features:

- Beautiful appearance
- Wide band

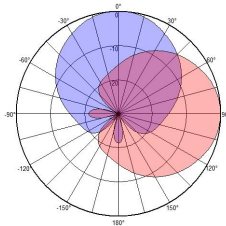
Connector:

- N Female

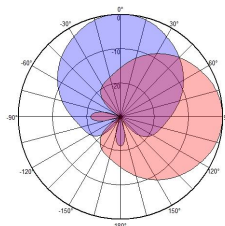


Electrical specifications

Frequency range (MHz)	698-960	1710-2690
Polarization	Vertical	Vertical
Gain(dBi)	8	10
Horizontal beam-width(°)	58-68	70-110
3dB Vertical beam-width(°)	65-72	29-48
VSWR	≤1.5	
Front to Back Ratio	15	12
Impedance(Ω)	50	
Maximum input power(W)	50	
Lightning protection	DC grounded	



698MHz



2690MHz

Mechanical specifications

Connector	N Female
Connector position	Bottom
Size(mm)	φ560×600
Gross weight(kg)	3.8
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	FRP
Radome color	Gray
Operating temperature(°C)	-40~55
Waterproof	IP65

1 port,1*(L+H), 8dBi,Omnidirectional Antenna

Applications:

- 698-2690MHz
- Outdoor Signal Coverage

Features:

- Beautiful appearance
- Wide band

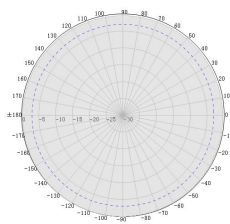
Connector:

- N Female

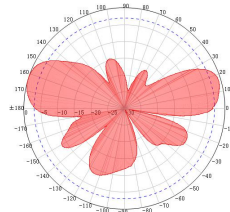


Electrical specifications

Frequency range (MHz)	698-960	1710-2690
Polarization	Vertical	Vertical
Gain(dBi)	6	8
Horizontal beam-width(°)	360	360
3dB Vertical beam-width(°)	22-25	13-16
VSWR	≤1.5	
Non-circularity	±2	
Impedance(Ω)	50	
Maximum input power(W)	50	
Lightning protection	DC grounded	



H-Plane



E-Plane

Mechanical specifications

Connector	N Female
Connector position	Bottom
Size(mm)	Φ76×1870
Gross weight(kg)	4.2
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	FRP
Radome color	Black
Operating temperature(°C)	-40~55
Waterproof	IP65

1 port,1*(L+H),5dBi,Omnidirectional Antenna

Applications:

- 698-2690MHz
- Outdoor Signal Coverage

Features:

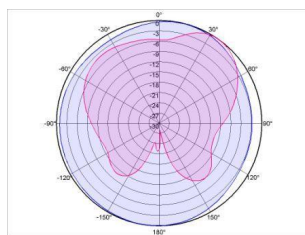
- Beautiful appearance
- Wide band

Connector:

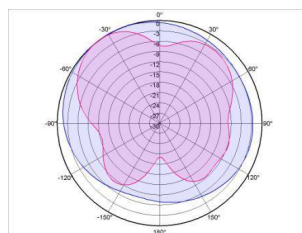
- N Female



Electrical specifications		
Frequency range (MHz)	698-960	1710-2690
Polarization	Vertical	Vertical
Gain(dBi)	2	5
Horizontal beam-width(°)	360	360
3dB Vertical beam-width(°)	65-102	40-65
VSWR	≤1.5	
Non-circularity	±2	
Elevation(°)	6-17	
Impedance(Ω)	50	
Maximum input power(W)	50	
Lightning protection	DC grounded	



698MHz



2690MHz

Mechanical specifications	
Connector	N Female
Connector position	Bottom
Size(mm)	Φ360×380
Gross weight(kg)	3
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	Fiberglass
Radome color	Green
Operating temperature(°C)	-40~65
Waterproof	IP65

2 port,2(L+H), 14.5dBi,Panel Antenna

Applications:

- 698-2690MHz
- Outdoor Signal Coverage

Features:

- Beautiful appearance
- Wide band

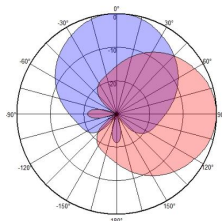
Connector:

- N Female or Customized

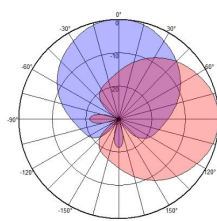


Electrical specifications

Frequency range (MHz)	698-960	1710-2690
Polarization	Vertical	±45
Gain(dBi)	12	14.5
Horizontal beam-width(°)	35	35
3dB Vertical beam-width(°)	35	35
VSWR	≤1.5	
Front to Back Ratio	≥20	
Isolation(dB)	≥25	
Intermodulation IM3(dBc)	≤-144@(2x37dBm)	
Impedance(Ω)	50	
Maximum input power(W)	200	
Lightning protection	DC grounded	



698MHz



2680MHz

Mechanical specifications

Connector	2×N Female
Connector position	Bottom
Size(mm)	540×540×183
Gross weight(kg)	5
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	Plastic
Radome color	Black and Gray
Operating temperature(°C)	-40~65
Waterproof	IP65

3.WIFI Antenna



1 port,2400-2500MHz, 3dBi,Omni Antenna

Applications:

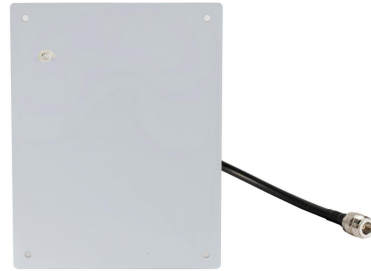
- 2400-2500MHz
- indoor Signal Coverage

Features:

- Small size, Beautiful appearance, Light weight
- DC Ground, Corrosion resistance, Anti-aging

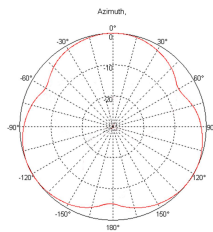
Connector:

- SMA Female, 4.3-10 Female or customized



Electrical specifications

Frequency range (MHz)	2400-2500
Polarization	Vertical
Gain(dBi)	3
Horizontal beam-width(°)	360
3dB Vertical beam-width(°)	22-28
VSWR	≤1.5
Impedance(Ω)	50
Maximum input power(W)	50
Lightning protection	DC grounded



2450MHz

Mechanical specifications

Connector	1*SMA Female
Connector position	Bottom
Size(mm)	44*28*1
Gross weight(kg)	0.5
Reflector material	Aluminium
Radome material	PVC
Radome color	Gray
Operating temperature(°C)	-40~65

2 port,2400-5850MHz, 3dBi,Omnidirectional Antenna

Applications:

- 2400-5850MHz
- Omnidirectional Antenna

Features:

- Beautiful appearance

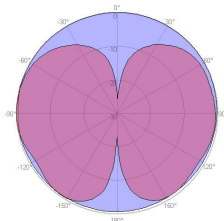
Connector:

- 2-RP-SMA-J

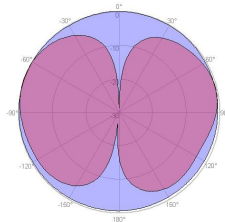


Electrical specifications

Frequency range (MHz)	2400-2483	5150-5850
Polarization	Vertical/Horizontal	Vertical/Horizontal
Gain(dBi)	3	3
Horizontal beam-width(°)	360	360
3dB Vertical beam-width(°)	>30	>30
VSWR	<1.8	<1.8
Impedance(Ω)	50	
Maximum input power(W)	50	
Lightning protection	DC grounded	



2400MHz



5850MHz

Mechanical specifications

Connector	2-RP-SMA-J
Connector position	Bottom
Size(mm)	φ 70 × 140
Gross weight(kg)	1
Reflector material	Aluminium
Radome material	PVC
Radome color	Gray
Operating temperature(°C)	-40~65

2 port,2400-5850MHz, 8dBi,Directional Antenna

Applications:

- 2400-5850MHz
- Directional Wifi Antenna

Features:

- Beautiful appearance

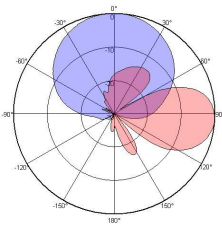
Connector:

- N-Female or customized

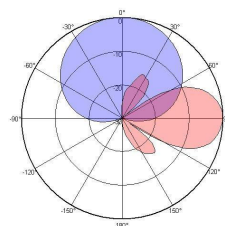


Electrical specifications

Frequency range (MHz)	2400-2483	5150-5850
Polarization	± 45°	± 45°
Gain(dBi)	8	8
Horizontal beam-width(°)	90	90
3dB Vertical beam-width(°)	65	65
VSWR	1.8	1.8
Front to Back Ratio	20	20
Impedance(Ω)	50	
Maximum input power(W)	100	
Lightning protection	DC grounded	



2400MHz



5850MHz

Mechanical specifications

Connector	2*N-Female
Connector position	Bottom
Size(mm)	280×180×60
Gross weight(kg)	0.8
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65

4 port,2400-5850MHz, 3dBi,Omni Antenna

Applications:

- 4×2400-5850MHz
- Directional Wifi Antenna

Features:

- Beautiful appearance

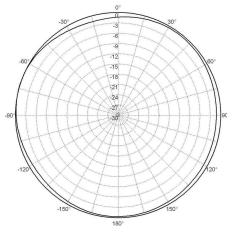
Connector:

- N-Female or customized

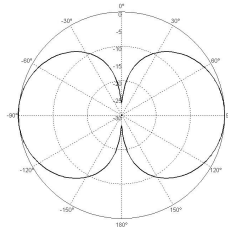


Electrical specifications

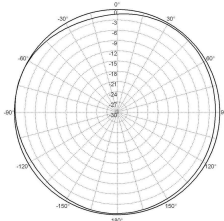
Frequency range (MHz)	2400-2483*4	5150-5850*4
Polarization	Vertical/Horizontal	Vertical/Horizontal
Gain(dBi)	3	3
Horizontal beam-width(°)	360	360
3dB Vertical beam-width(°)	30	30
VSWR	1.8	1.8
Isolation	25	25
Impedance(Ω)	50	
Maximum input power(W)	100	
Lightning protection	DC grounded	



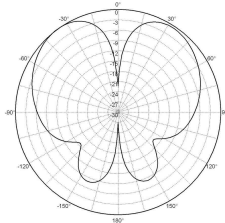
H-2400MHz



E-2400MHz



H-5850MHz



E-5850MHz

Mechanical specifications

Connector	4×N-Female
Connector position	Bottom
Size(mm)	126×76×152
Gross weight(kg)	0.46
Wind resistance(km/h)	60
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65
Waterproof	IP65

4 port,2400-5850MHz, 8dBi,Directional Antenna

Applications:

- 2400-5850MHz
- Directional Wifi Antenna

Features:

- Beautiful appearance

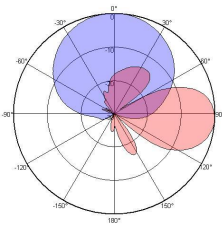
Connector:

- N-Female or customized

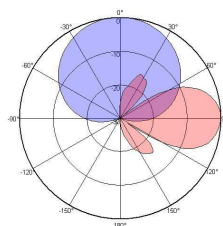


Electrical specifications

Frequency range (MHz)	2400-2483*4	5150-5850*4
Polarization	V/H	±45°
Gain(dBi)	10	10
Horizontal beam-width(°)	65	65
3dB Vertical beam-width(°)	35	30
VSWR	2.2	2.5
Front to Back Ratio	20	20
Impedance(Ω)	50	
Maximum input power(W)	1050	
Lightning protection	DC grounded	



2400MHz



5850MHz

Mechanical specifications

Connector	4×N-Female
Connector position	Back
Size(mm)	220×220×25
Gross weight(kg)	2.5
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	PVC
Radome color	Gray
Operating temperature(°C)	-40~65
Waterproof	IP65

8 port,2400-2500/5150-5850MHz,3dBi,Omnidirectional Antenna

Applications:

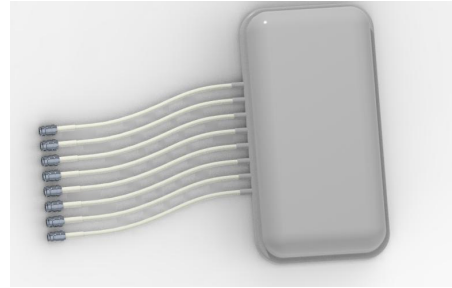
- 8×2400-5850MHz
- Directional Wifi Antenna

Features:

- Beautiful appearance

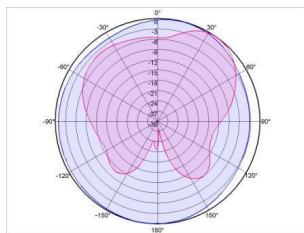
Connector:

- N-Female or customized

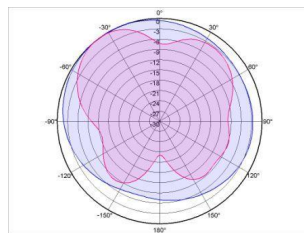


Electrical specifications

Frequency range (MHz)	2400-2483*8	5150-5850*8
Polarization	Vertical/Horizontal	Vertical/Horizontal
Gain(dBi)	9	9
Horizontal beam-width(°)	360	360
3dB Vertical beam-width(°)	68	68
VSWR	1.8	1.8
Isolation	25	25
Impedance(Ω)	50	
Maximum input power(W)	100	
Lightning protection	DC grounded	



2400MHz



5850MHz

Mechanical specifications

Connector	8×N-Female
Connector position	Bottom
Size(mm)	297*180*68
Gross weight(kg)	3.5
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	PVC
Radome color	Gray
Operating temperature(°C)	-40~65
Waterproof	IP65

8 port,2400-2500/5150-5850MHz,9dBi,Panel Antenna

Applications:

- 4×2400-5850MHz
- Directional Wifi Antenna

Features:

- Beautiful appearance

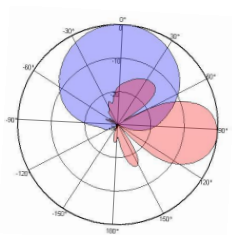
Connector:

- N-Female or customized

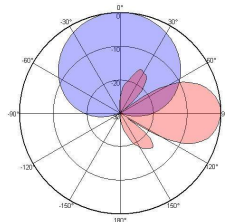


Electrical specifications

Frequency range (MHz)	2400-2483*8	5150-5850*8
Polarization	±45	±45
Gain(dBi)	8	8
Horizontal beam-width(°)	65	65
3dB Vertical beam-width(°)	30	30
VSWR	1.8	1.8
Isolation	25	25
Impedance(Ω)	50	
Maximum input power(W)	100	
Lightning protection	DC grounded	



2400MHz



5850MHz

Mechanical specifications

Connector	8×N-Female
Connector position	Bottom
Size(mm)	400×300×125
Gross weight(kg)	3.5
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	PVC
Radome color	Gray
Operating temperature(°C)	-40~65
Waterproof	IP65

1 port,2400-2500MHz,9dBi,Panel Antenna

Applications:

- 2400-250MHz
- Directional Wifi Antenna

Features:

- Beautiful appearance

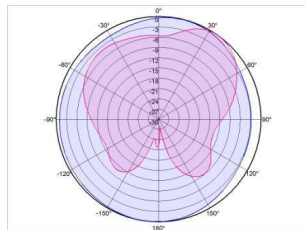
Connector:

- N-Female or customized



Electrical specifications

Frequency range (MHz)	2400-2483
Polarization	V
Gain(dBi)	2.5
Horizontal beam-width(°)	360
3dB Vertical beam-width(°)	58
VSWR	≤1.8
Impedance(Ω)	50
Maximum input power(W)	100
Lightning protection	DC grounded

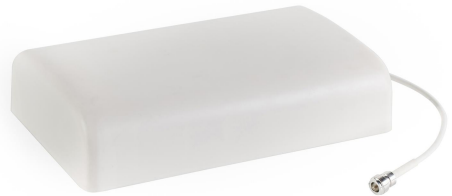


2400MHz

Mechanical specifications

Connector	1×SMA -J
Connector position	Bottom
Size(mm)	Φ9×113
Gross weight(kg)	0.2
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome color	Black
Operating temperature(°C)	-40~65
Waterproof	IP65

4.DAS Antenna



1 port,698-4000MHz, 6dBi,7dBi,Panel Antenna

Applications:

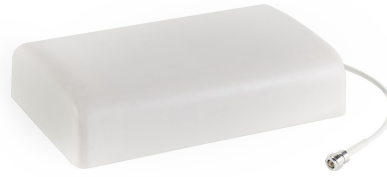
- 698-4000MHz
- Panel Antenna

Features:

- Wide band

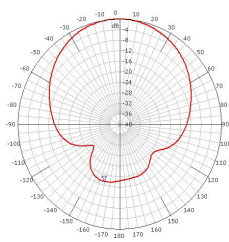
Connector:

- N-Female, 4.3-10 Female or customized

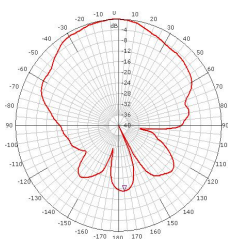


Electrical specifications

Frequency range (MHz)	698-960	1710-2690	3300-4000
Polarization	Vertical	Vertical	Vertical
Gain(dBi)	6	7	7
Horizontal beam-width(°)	90	75	75
3dB Vertical beam-width(°)	85	65	55
VSWR	≤1.7	≤1.5	≤1.5
Front to Back Ratio	≥8	≥10	≥10
Intermodulation IM3(dBc)	≤-140dBc(@2*33dBm)		
Impedance(Ω)	50		
Maximum input power(W)	50		
Lightning protection	DC grounded		



698MHz



2690MHz

Mechanical specifications

Connector	1×N-Female
Connector position	Bottom
Size(mm)	165*155*43
Gross weight(kg)	0.26
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65

1 port,698-4000MHz, 7dBi,8dBi,Panel Antenna

Applications:

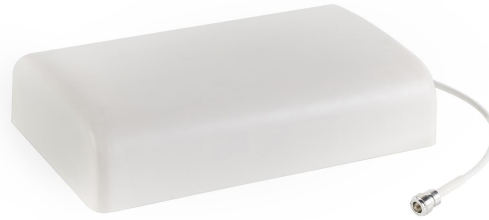
- 698-4000MHz
- Panel Antenna

Features:

- Wide band

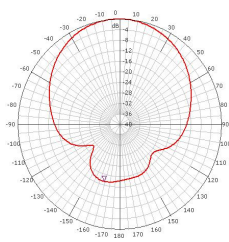
Connector:

- N-Female, 4.3-10 Female or customized

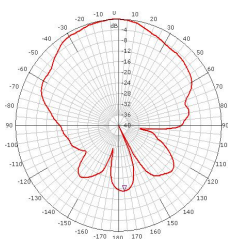


Electrical specifications

Frequency range (MHz)	698-960	1710-2690	3300-4000
Polarization	Vertical	Vertical	Vertical
Gain(dBi)	7	8	8
Horizontal beam-width(°)	90	75	75
3dB Vertical beam-width(°)	65	60	60
VSWR	≤1.7	≤1.5	≤1.5
Front to Back Ratio	≥6	≥8	≥8
Intermodulation IM3(dBc)	≤-140dBc(@2*33dBm)		
Impedance(Ω)	50		
Maximum input power(W)	50		
Lightning protection	DC grounded		



698MHz



2690MHz

Mechanical specifications

Connector	1×N-Female
Connector position	Bottom
Size(mm)	210×180×64
Gross weight(kg)	0.26
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65

2 port,698-4000MHz, 8dBi,Panel Antenna

Applications:

- 698-4000MHz
- Panel Antenna

Features:

- Wide band

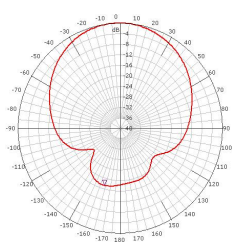
Connector:

- N-Female, 4.3-10 Female or customized

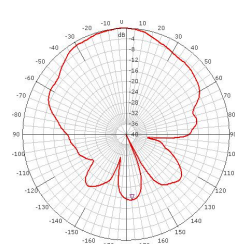


Electrical specifications

Frequency range (MHz)	698-960	1710-2690	3300-4000
Polarization	Vertical /Horizontal	Vertical /Horizontal	Vertical /Horizontal
Gain(dBi)	6	8	8
Horizontal beam-width(°)	90	75	65
3dB Vertical beam-width(°)	85	60	55
VSWR	≤1.8	≤1.5	≤1.5
Front to Back Ratio	≥8	≥10	≥10
Intermodulation IM3(dBc)	≤-150dBc(@2*43dBm)		
Impedance(Ω)	50		
Maximum input power(W)	50		
Lightning protection	DC grounded		



698MHz



2690MHz

Mechanical specifications

Connector	2×N-Female
Connector position	Bottom
Size(mm)	400x180x62
Gross weight(kg)	0.7
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65

1 port,698-4000MHz, 2dBi,5dBi,Omnidirectional Antenna

Applications:

- 698-4000MHz
- Omnidirectional Ceiling Mounted Antenna

Features:

- Wide band

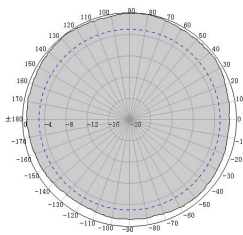
Connector:

- N-Female, 4.3-10 Female or customized

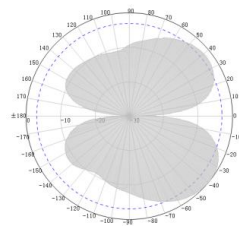


Electrical specifications

Frequency range (MHz)	698-960	1710-2690	3300-4000
Polarization	Vertical	Vertical	Vertical
Gain(dBi)	2	5	5
Horizontal beam-width(°)	360	360	360
3dB Vertical beam-width(°)			
VSWR	≤1.8	≤1.5	1.5
Intermodulation IM3(dBc)	≤-150dBc(@2*53dBm)		
Impedance(Ω)	50		
Maximum input power(W)	50		
Lightning protection	DC grounded		



2690MHz



Mechanical specifications

Connector	1×N-Female
Connector position	Back
Size(mm)	φ 186×85
Gross weight(kg)	0.23
Reflector material	Aluminium
Radome material	ABS
Radome color	Grey
Operating temperature(°C)	-40~65

1 port,698-6000MHz, 2dBi,4dBi,Omi Antenna

Applications:

- 698-6000MHz
- Omni Ceiling Mounted Antenna

Features:

- Wide band

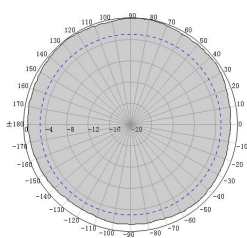
Connector:

- N-Female, 4.3-10 Female or customized

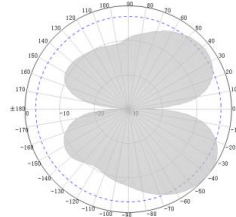


Electrical specifications

Frequency range (MHz)	698-960	1710-2690	3300-3800	5150-6000
Polarization	Vertical	Vertical	Vertical	Vertical
Gain(dBi)	2	4	4	4
Horizontal beam-width(°)	360	360	360	360
3dB Vertical beam-width(°)	85	45	45	45
VSWR	≤2.0			
Intermodulation IM3(dBc)	≤-150dBc(@2*43dBm)			
Impedance(Ω)	50			
Maximum input power(W)	50			
Lightning protection	DC grounded			



2690MHz



Mechanical specifications

Connector	1×N-Female
Connector position	Back
Size(mm)	φ204×115
Gross weight(kg)	0.32
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65

2 port,698-4000MHz, 3dBi,4dBi,Omi Antenna

Applications:

- 698-4000MHz
- Omni Ceiling Mounted Antenna

Features:

- Wide band

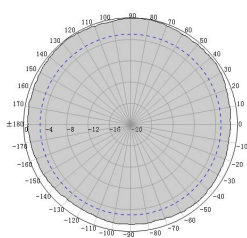
Connector:

- N-Female, 4.3-10 Female or customized

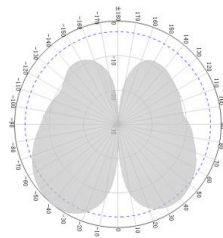


Electrical specifications

Frequency range (MHz)	698-806	806-960	1710-2690	3300-4000
Polarization	Vertical	Vertical	Vertical	Vertical
Gain(dBi)	3.5	3.5	4.5	4.5
Horizontal beam-width(°)	360	360	360	360
3dB Vertical beam-width(°)	85	85	55	35
VSWR	≤1.8	≤1.5	≤1.5	1.5
Intermodulation IM3(dBc)	≤-150dBc(@2*43dBm)			
Impedance(Ω)	50			
Maximum input power(W)	50			
Lightning protection	DC grounded			



2690MHz



Mechanical specifications

Connector	2×N-Female
Connector position	Back
Size(mm)	Φ208×52
Gross weight(kg)	0.4
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65

2 port,698-4000MHz, 2dBi,4dBi,Omnidirectional Antenna

Applications:

- 698-4000MHz
- Omni Ceiling Mounted Antenna

Features:

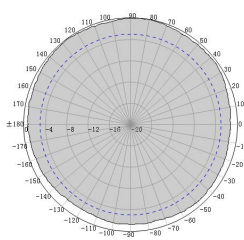
- Wide band

Connector:

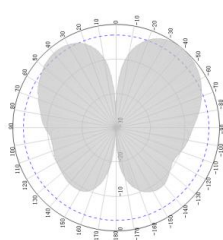
- N-Female, 4.3-10 Female or customized



Electrical specifications				
Frequency range (MHz)	698-806	806-960	1710-2690	3300-4000
Polarization	Vertical	Vertical	Vertical	Vertical
Gain(dBi)	2	2	3	3
Horizontal beam-width(°)	360	360	360	360
3dB Vertical beam-width(°)	85	85	55	35
VSWR	≤1.8	≤1.5	≤1.5	1.5
Intermodulation IM3(dBc)	≤-150dBc(@2*43dBm)			
Impedance(Ω)	50			
Maximum input power(W)	50			
Lightning protection	DC grounded			



2690MHz



Mechanical specifications	
Connector	2×N-Female
Connector position	Back
Size(mm)	Φ180×130
Gross weight(kg)	0.36
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65

1 port,698-2690MHz, 8/9dBi,Log periodic Antenna

Applications:

- 698-2690MHz
- Log periodic antenna

Features:

- Wide band

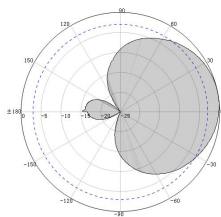
Connector:

- N-Female, 4.3-10 Female or customized

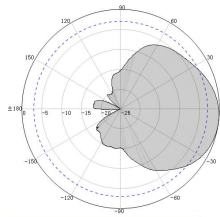


Electrical specifications

Frequency range (MHz)	698-960	1710-2690
Polarization	Vertical	Vertical
Gain(dBi)	8	9
Horizontal beam-width(°)	90	70
3dB Vertical beam-width(°)	85	55
VSWR	≤1.8	≤1.8
Front to Back Ratio	≥12	≥15
Intermodulation IM3(dBc)	≤-150dBc(@2*43dBm)	
Impedance(Ω)	50	
Maximum input power(W)	500	
Lightning protection	DC grounded	



698MHz



2690MHz

Mechanical specifications

Connector	1×N-Female
Connector position	Back
Size(mm)	300×210×65
Gross weight(kg)	0.65
Wind resistance(km/h)	210
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65
Waterproof	IP65

1 port,698-2690MHz, 9/10dBi,Log periodic Antenna

Applications:

- 698-2690MHz
- Log periodic antenna

Features:

- Wide band

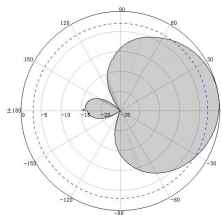
Connector:

- 7/16-Female, 4.3-10 Female or customized

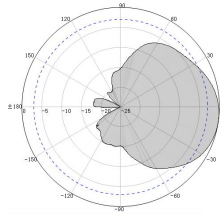


Electrical specifications

Frequency range (MHz)	698-960	1710-2690
Polarization	Vertical	Vertical
Gain(dBi)	9	10
Horizontal beam-width(°)	75	60
3dB Vertical beam-width(°)	55	50
VSWR	≤1.5	≤1.5
Front to Back Ratio	≥22	≥22
Intermodulation IM3(dBc)	≤-150dBc(@2*43dBm)	
Impedance(Ω)	50	
Maximum input power(W)	500	
Lightning protection	DC grounded	



698MHz



2690MHz

Mechanical specifications

Connector	1×7/16-Female
Connector position	Bottom
Size(mm)	550*210*65
Gross weight(kg)	0.9
Wind resistance(km/h)	200
Reflector material	Aluminium
Radome material	ABS
Radome color	Gray
Operating temperature(°C)	-40~65
Waterproof	IP65



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