



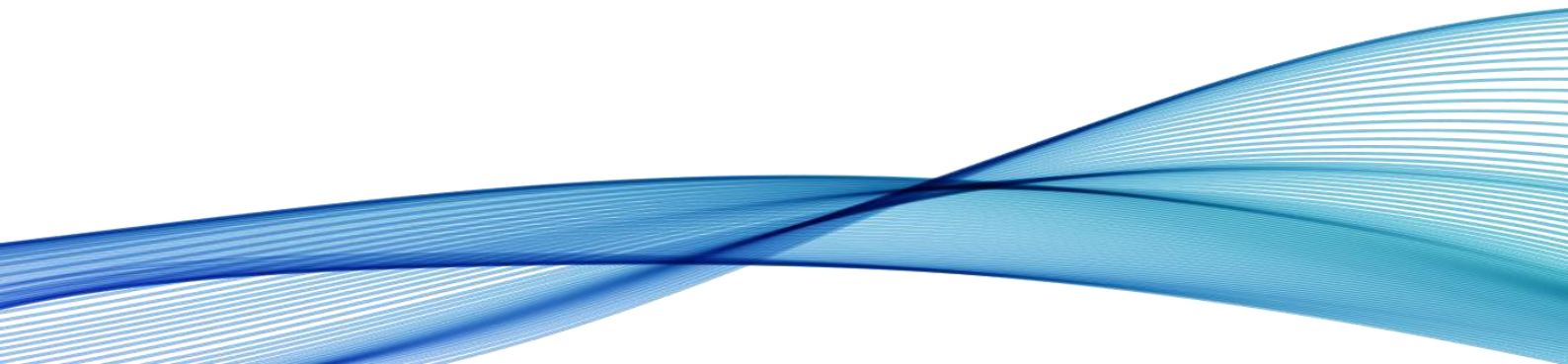
BSA Catalogue



基站天线 Base Station Antenna



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806-896MHz

65deg 18dBi Xpol 2-port antenna

Integrated and replaceable RCU, each band individually adjustable

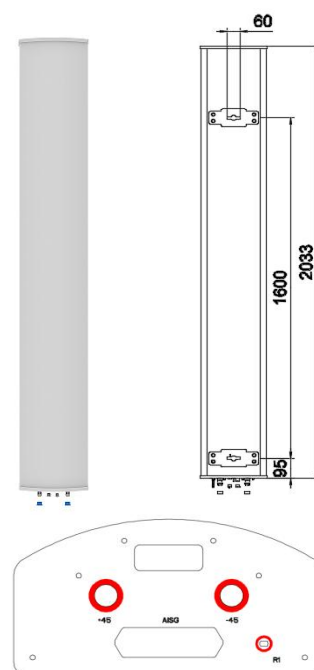
2x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)	R1/R2: 806-896	
增益Gain (dBi)	中间倾角At mid tilt	18
	所有倾角Over all tilts	17.5±0.5
极化方式Polarization	+45°/-45°	
水平波瓣宽度Horizontal 3 dB beam width (°)	65±5	
垂直波瓣宽度Vertical 3 dB beam width (°)	8±0.5	
电下倾角Electrical downtilt (°)	2-12, 可连续调节continuously adjustable	
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)	≥15.0	
交叉极化比Cross Polar Ratio (0°)(dB)	≥15.0	
前后比Front to Back Ratio, ±30°(dB)	≥25.0	
驻波比VSWR	<1.5	
端口隔离Port to Port Isolation (dB)	≥30	
波束隔离Beam to Beam Isolation (dB)	≥30	
三阶互调PIM3 (2×43 dBm carrier)(dBc)	≥-153	
阻抗Impedance(Ω)	50	
接地方式Grounding	直流接地DC Ground	
功率容限Max Input Power per Port (W)	350	

机械性能指标 Mechanical Properties

天线罩材料Radome Material	UPVC
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	2x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	2035 x 290 x 150
包装尺寸Packing Size (H×W×D)(mm)	2260×365×230
天线净重Antenna Net Weight(kg)	17.8
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-12
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1800
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	661/385/826 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*880-960MHz

65/65deg 14.5/14.5dBi XXpol 4-port antenna

Integrated and replaceable RCU, each band individually adjustable

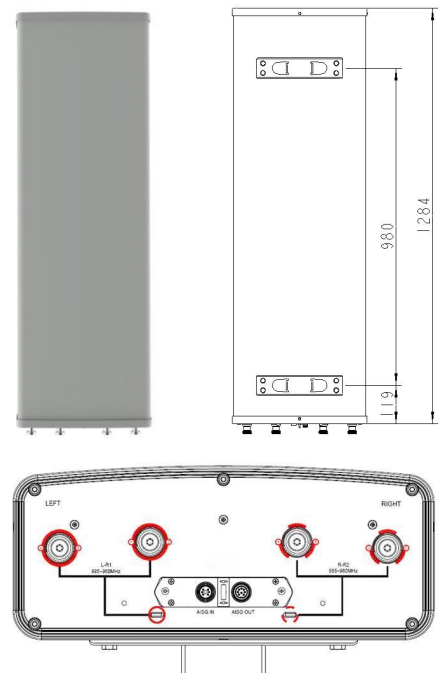
4x7/16Din(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1/R2
		880-960
增益Gain (dBi)	中间倾角At mid tilt	/
	所有倾角Over all tilts	≥14.5
极化方式Polarization		+45°/-45°
水平波瓣宽度Horizontal 3 dB beam width (°)		65±6
垂直波瓣宽度Vertical 3 dB beam width (°)		≥12
电下倾角Electrical downtilt (°)		0-14
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15
交叉极化比Cross Polar Ratio (0°)(dB)		0°≥15 ±60°≥8
前后比Front to Back Ratio, ±30°(dB)		≥25
驻波比VSWR		≤1.5
端口隔离Port to Port Isolation (dB)		≥25
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-150
阻抗Impedance(Ω)		50
接地方式Grounding		直流接地DC Ground
功率容限Max Input Power per Port (W)		250

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4x7/16Din(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1286 x 416 x 164
包装尺寸Packing Size (H×W×D)(mm)	1505×500×275
天线净重Antenna Net Weight(kg)	18
安装夹具重量Installation Kit Weight(kg)	4.7 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-110
抱杆长度Pole Length(mm)	>1100
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	868/342/926 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*820-960MHz

65/65deg 14.5/14.5dBi XXpol 4-port antenna

Integrated and replaceable RCU, each band individually adjustable

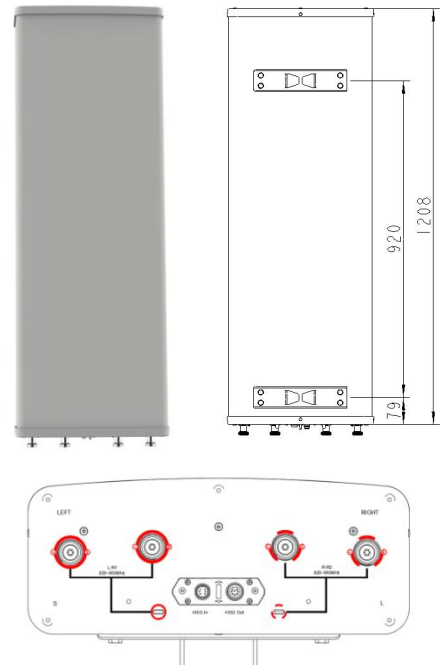
4x7/16Din(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1/R2
		820-960
增益Gain (dBi)	中间倾角At mid tilt	/
	所有倾角Over all tilts	≥ 14.5
极化方式Polarization		+45°/-45°
水平波瓣宽度Horizontal 3 dB beam width (°)		65±6
垂直波瓣宽度Vertical 3 dB beam width (°)		≥ 12
电下倾角Electrical downtilt (°)		0-14
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥ 15
交叉极化比Cross Polar Ratio (0°)(dB)		0° ≥ 15
		±60° ≥ 8
前后比Front to Back Ratio, ±30°(dB)		≥ 25
驻波比VSWR		≤ 1.5
端口隔离Port to Port Isolation (dB)		≥ 25
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤ -150
阻抗Impedance(Ω)		50
接地方式Grounding		直流接地DC Ground
功率容限Max Input Power per Port (W)		250

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4x7/16Din(F)
天线尺寸Antenna Dimension (H x W x D)(mm)	1208x416x164
包装尺寸Packing Size (H×W×D)(mm)	1430×500×275
天线净重Antenna Net Weight(kg)	15
安装夹具重量Installation Kit Weight(kg)	4.7 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-110
抱杆长度Pole Length(mm)	>1000
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	815/321/870 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*820-960MHz

65/65deg 16/16dBi XXpol 4-port antenna

Integrated and replaceable RCU, each band individually adjustable

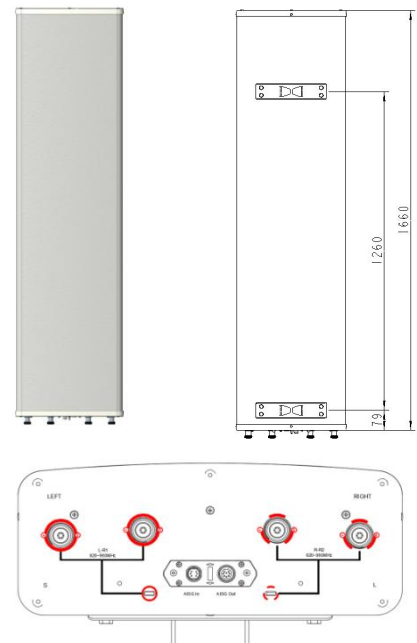
4x7/16Din(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1/R2
		820-960
增益Gain (dBi)	中间倾角At mid tilt	/
	所有倾角Over all tilts	≥ 16
极化方式Polarization		$+45^{\circ}/-45^{\circ}$
水平波瓣宽度Horizontal 3 dB beam width ($^{\circ}$)		65 ± 5
垂直波瓣宽度Vertical 3 dB beam width ($^{\circ}$)		≥ 8
电下倾角Electrical downtilt ($^{\circ}$)		0-10
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥ 15
交叉极化比Cross Polar Ratio (0°)(dB)		$\pm 30^{\circ} \geq 15$ $\pm 30^{\circ} \sim \pm 60^{\circ} \geq 10$
前后比Front to Back Ratio, $\pm 30^{\circ}$ (dB)		≥ 25
驻波比VSWR		≤ 1.4
端口隔离Port to Port Isolation (dB)		≥ 28
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤ -153
阻抗Impedance(Ω)		50
接地方式Grounding		直流接地DC Ground
功率容限Max Input Power per Port (W)		250

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4x7/16Din(F)
天线尺寸Antenna Dimension (H x W x D (mm))	1660x416x164
包装尺寸Packing Size (HxWxD)(mm)	1880x500x275
天线净重Antenna Net Weight(kg)	19
安装夹具重量Installation Kit Weight(kg)	3.8 (2 units)
机械倾角Mechanical Downtilt($^{\circ}$)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-110
抱杆长度Pole Length(mm)	>1400
工作温度Operating Temperature($^{\circ}\text{C}$)	-40-+65
风载Wind Load (at 150 km/h)	1120/441/1195 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



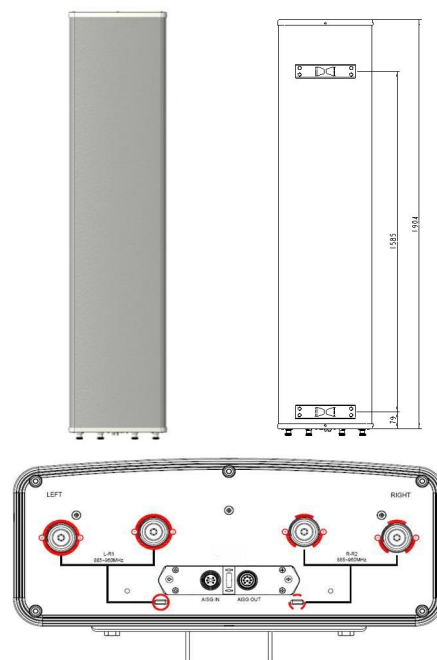
2*880-960MHz**65/65deg 16/16dBi XXpol 4-port antenna****Integrated and replaceable RCU, each band individually adjustable****4x7/16Din(F) connectors @bottom**

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1/R2
		880-960
增益Gain (dBi)	中间倾角At mid tilt	/
	所有倾角Over all tilts	≥ 16
极化方式Polarization		$+45^{\circ}/-45^{\circ}$
水平波瓣宽度Horizontal 3 dB beam width ($^{\circ}$)		65 ± 6
垂直波瓣宽度Vertical 3 dB beam width ($^{\circ}$)		≥ 8
电下倾角Electrical downtilt ($^{\circ}$)		2-12
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥ 15
交叉极化比Cross Polar Ratio (0 $^{\circ}$)(dB)		$0^{\circ}\geq 15$
		$\pm 60^{\circ}\geq 8$
前后比Front to Back Ratio, $\pm 30^{\circ}$ (dB)		≥ 25
驻波比VSWR		≤ 1.5
端口隔离Port to Port Isolation (dB)		≥ 25
三阶互调PIM3 (2 $\times$ 43 dBm carrier)(dBc)		≤ -150
阻抗Impedance(Ω)		50
接地方式Grounding		直流接地DC Ground
功率容限Max Input Power per Port (W)		250

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4x7/16Din(F)
天线尺寸Antenna Dimension (H x W x D (mm))	1904 x 416 x 164
包装尺寸Packing Size (H $\times$ W $\times$ D)(mm)	2120 $\times$ 500 $\times$ 275
天线净重Antenna Net Weight(kg)	25.5
安装夹具重量Installation Kit Weight(kg)	4.7 (2 units)
机械倾角Mechanical Downtilt($^{\circ}$)	0-12
支持抱杆直径范围Mast Diameter Supported(mm)	50-110
抱杆长度Pole Length(mm)	>1700
工作温度Operating Temperature($^{\circ}$ C)	-40-+65
风载Wind Load (at 150 km/h)	1287/507/1372 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



1710-2700MHz

65deg 18dBi XXXXpol 2-port Antenna

Integrated and replaceable RCU, each band individually adjustable

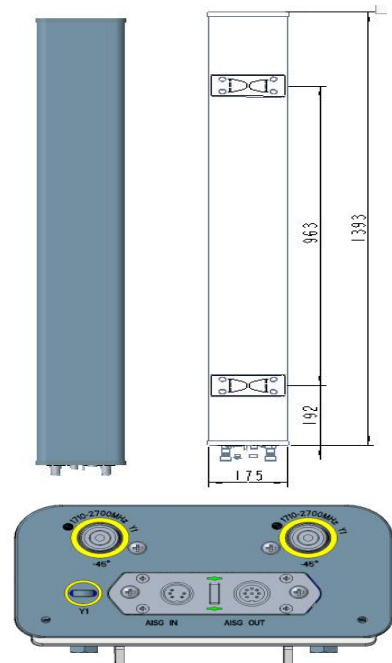
2x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y1: 1710-2700		
		1710-1920	1920-2300	2300-2700
增益Gain (dBi)	中间倾角At mid tilt	17.2	17.7	18.0
	所有倾角Over all tilts	17±0.5	17.5±0.4	18±0.5
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		67±4.5	65±3.6	61±4.2
垂直波瓣宽度Vertical 3 dB beam width (°)		7.5±1	6.5±1	5.5±1
电下倾角Electrical downtilt (°)		0-12, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		>15	>15	>15
交叉极化比Cross Polar Ratio (0°)(dB)		≥18	≥17	≥19
前后比Front to Back Ratio, ±30°(dB)		>26	>27	>26
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥25		
波束隔离Beam to Beam Isolation (dB)		>28		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153		
阻抗Impedance(Ω)		50		
接地方式Grounding		直流接地DC Ground		
功率容限Max Input Power per Port (W)		250		

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4.3-10(F)x2
天线尺寸Antenna Dimension (H x W x D) (mm)	1400 x 175 x 86
包装尺寸Packing Size (H×W×D)(mm)	1650×275×186
天线净重Antenna Net Weight(kg)	8.3
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1800
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	346/170/380 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



SL-2M-4P172118-E12-V01 【SL17116L】

中频电调天线4端口

2M 4port independent electrically adjustable smart antenna



2*1710-2170MHz

65/65deg 17/17dBi XXpol 4-port antenna

Integrated and replaceable RCU, each band individually adjustable

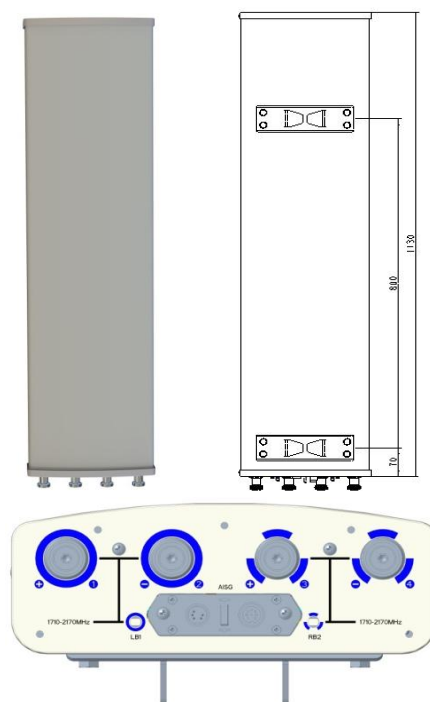
4x7/16Din(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		B1/B2
		1710-2170
增益Gain (dBi)	中间倾角At mid tilt	/
	所有倾角Over all tilts	≥ 17
极化方式Polarization		+45°/-45°
水平波瓣宽度Horizontal 3 dB beam width (°)		65±6
垂直波瓣宽度Vertical 3 dB beam width (°)		≥ 6
电下倾角Electrical downtilt (°)		2-12
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥ 15
交叉极化比Cross Polar Ratio (0°)(dB)		0° ≥ 15 $\pm 60^\circ \geq 10$
前后比Front to Back Ratio, $\pm 30^\circ$ (dB)		≥ 25
驻波比VSWR		≤ 1.5
端口隔离Port to Port Isolation (dB)		≥ 28
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤ -153
阻抗Impedance(Ω)		50
接地方式Grounding		直流接地DC Ground
功率容限Max Input Power per Port (W)		250

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4x7/16Din(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1130x276x99
包装尺寸Packing Size (H×W×D)(mm)	1400×365×225
天线净重Antenna Net Weight(kg)	16
安装夹具重量Installation Kit Weight(kg)	3.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-110
抱杆长度Pole Length(mm)	> 1200
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	505/181/540 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



3*1710-2170MHz

65/65/65deg 18/18/18dBi XXXpol 6-port antenna

Integrated and replaceable RCU, each band individually adjustable

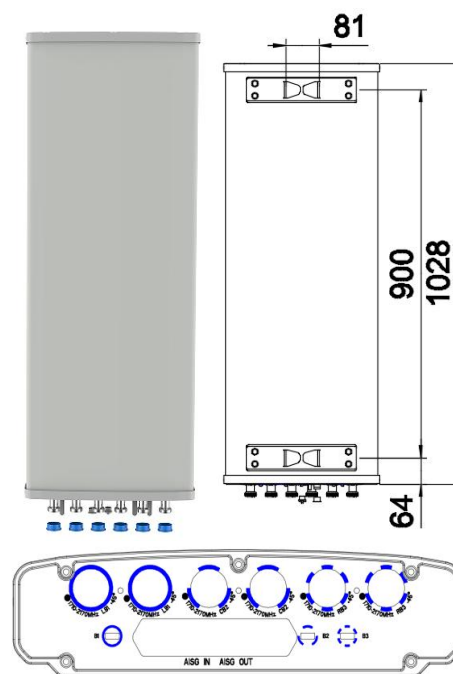
6x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)	Y1/Y2/Y3: 1710-2170	
增益Gain (dBi)	中间倾角At mid tilt	/
	所有倾角Over all tilts	17.5±1
极化方式Polarization	+45°/-45°	
水平波瓣宽度Horizontal 3 dB beam width (°)	65±6	
垂直波瓣宽度Vertical 3 dB beam width (°)	≥7	
电下倾角Electrical downtilt (°)	0-10, 可连续调节continuously adjustable	
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)	≥16.0	
交叉极化比Cross Polar Ratio (0°)(dB)	≥15.0	
前后比Front to Back Ratio, ±30°(dB)	≥25.0	
驻波比VSWR	<1.5	
端口隔离Port to Port Isolation (dB)	≥26	
波束隔离Beam to Beam Isolation (dB)	≥26	
三阶互调PIM3 (2×43 dBm carrier)(dBc)	≤-150	
阻抗Impedance(Ω)	50	
接地方式Grounding	直流感地DC Ground	
功率容限Max Input Power per Port (W)	250	

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	6x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1030 x 375 x 95
包装尺寸Packing Size (H×W×D)(mm)	1225×455×210
天线净重Antenna Net Weight(kg)	11.8
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-14
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1000
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	545/138/599 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*1710-2690MHz

33/33deg 19/19dBi XXpol 4-port antenna

Integrated and replaceable RCU, each band individually adjustable

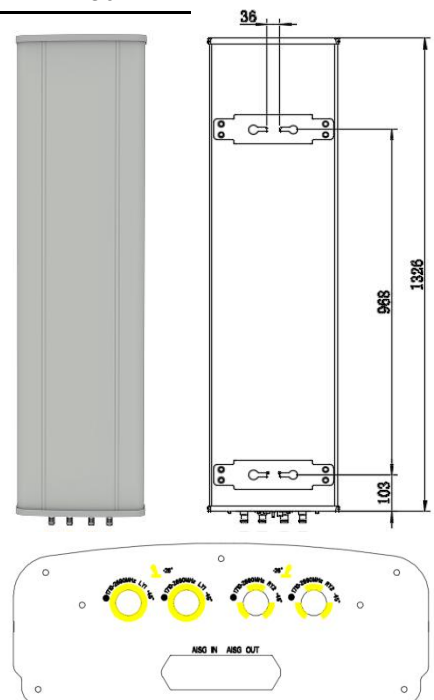
4x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y1/Y2: 1710-2690			
		1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	18.5	18.8	19.2	19.5
	所有倾角Over all tilts	18.5±0.5	18.8±0.5	19.2±0.5	19.5±0.5
极化方式Polarization		+45°/-45°			
水平波瓣宽度Horizontal 3 dB beam width (°)		32±5	30±5	28±4	26±4
垂直波瓣宽度Vertical 3 dB beam width (°)		7.0±1.0	6.5±1.0	6±0.8	5.5±0.8
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable			
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥16.0	≥16.0	≥16.0	≥16.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥27.0	≥27.0	≥27.0	≥27.0
前后比Front to Back Ratio, ±30°(dB)		≥27.0	≥27.0	≥28.0	≥29.0
驻波比VSWR		<1.5			
端口隔离Port to Port Isolation (dB)		≥27			
波束隔离Beam to Beam Isolation (dB)		>15			
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-150			
阻抗Impedance(Ω)		50			
接地方式Grounding		直流接地DC Ground			
功率容限Max Input Power per Port (W)		250			

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1330 x 350 x 155
包装尺寸Packing Size (H×W×D)(mm)	1625×425×260
天线净重Antenna Net Weight(kg)	18.1
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-18
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1400
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	636/408/795 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



3*1710-2700MHz

65/65/65deg 19/19/19dBi XXXpol 6-port antenna

Integrated and replaceable RCU, each band individually adjustable

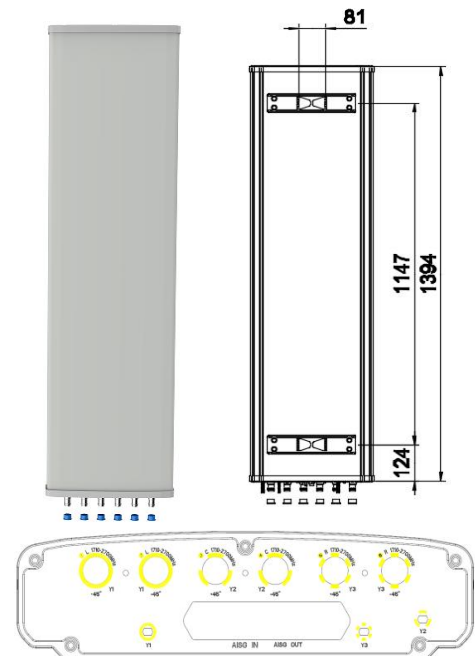
6x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y1/Y2/Y3: 1710-2700		
		1710-1920	1920-2300	2300-2700
增益Gain (dBi)	中间倾角At mid tilt	17.2	17.7	19.0
	所有倾角Over all tilts	17±0.5	17.5±0.4	18.8±0.5
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		67±4.5	65±3.6	61±4.2
垂直波瓣宽度Vertical 3 dB beam width (°)		7.5±0.7	6.5±0.5	5.5±0.5
电下倾角Electrical downtilt (°)		0-8, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15.0	≥15.0	≥15.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥18.0	≥17.0	≥19.0
前后比Front to Back Ratio, ±30°(dB)		≥26.0	≥27.0	≥26.0
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥28		
波束隔离Beam to Beam Isolation (dB)		≥30		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153		
阻抗Impedance(Ω)		50		
接地方式Grounding		直流接地DC Ground		
功率容限Max Input Power per Port (W)		250		

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	6x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1395 x 395 x 95
包装尺寸Packing Size (H×W×D)(mm)	1595×455×210
天线净重Antenna Net Weight(kg)	16.5
安装夹具重量Installation Kit Weight(kg)	4.7(2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1200
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	778/187/856 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



SL-4MS-4P172117-4P242617-E10-V01【SL17350F】

中频8端口电调天线

4M 8port independent electrically adjustable antenna



2*1710-2170/2*2500-2690MHz

65/65/65/65deg 17/17/17/17dBi XXXXpol 8-port antenna

Integrated and replaceable RCU, each band individually adjustable

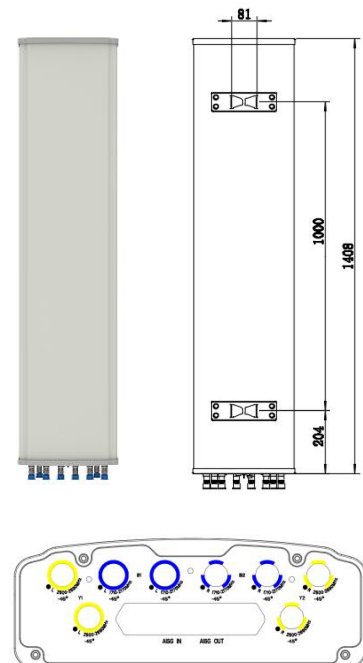
8x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)	B1/B2: 1710-2170	Y1/Y2:2500-2690
增益Gain (dBi)	中间倾角At mid tilt	/
	所有倾角Over all tilts	16.7±0.8
极化方式Polarization	+45°/-45°	
水平波瓣宽度Horizontal 3 dB beam width (°)	66±6	60±5
垂直波瓣宽度Vertical 3 dB beam width (°)	7.5±0.5	7.5±0.5
电下倾角Electrical downtilt (°)	2-10, 可连续调节continuously adjustable	
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)	≥15.0@2,6,10°	≥15.0@2,6,10°
交叉极化比Cross Polar Ratio (0°)(dB)	≥15.0	≥15.0
前后比Front to Back Ratio, ±30°(dB)	≥23.0	≥25.0
驻波比VSWR	<1.5	
端口隔离Port to Port Isolation (dB)	≥26	
波束隔离Beam to Beam Isolation (dB)	≥26	
三阶互调PIM3 (2×43 dBm carrier)(dBc)	≤-153	
阻抗Impedance(Ω)	50	
接地方式Grounding	直流接地DC Ground	
功率容限Max Input Power per Port (W)	250	

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	8x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1410 x 320 x 115
包装尺寸Packing Size (H×W×D)(mm)	1705×470×250
天线净重Antenna Net Weight(kg)	18.2
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-18
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1400
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	486/226/510 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



4*1710-2170MHz

65/65/65/65deg 18/18/18/18dBi XXXXpol 8-port antenna

Integrated and replaceable RCU, each band individually adjustable

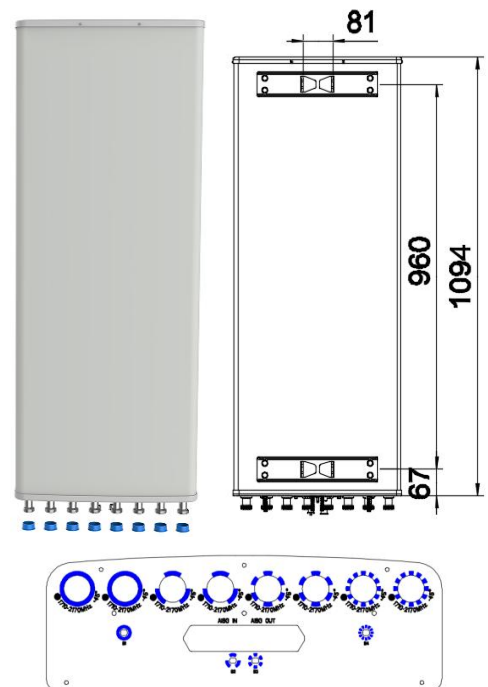
8x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)	Y1/Y2/Y3/Y4: 1710-2170	
增益Gain (dBi)	中间倾角At mid tilt	/
	所有倾角Over all tilts	17.5±1
极化方式Polarization	+45°/-45°	
水平波瓣宽度Horizontal 3 dB beam width (°)	65±6	
垂直波瓣宽度Vertical 3 dB beam width (°)	≥7	
电下倾角Electrical downtilt (°)	0-10, 可连续调节continuously adjustable	
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)	≥16.0	
交叉极化比Cross Polar Ratio (0°)(dB)	≥15.0	
前后比Front to Back Ratio, ±30°(dB)	≥25.0	
驻波比VSWR	<1.5	
端口隔离Port to Port Isolation (dB)	≥26	
波束隔离Beam to Beam Isolation (dB)	≥26	
三阶互调PIM3 (2×43 dBm carrier)(dBc)	≤-150	
阻抗Impedance(Ω)	50	
接地方式Grounding	直流接地DC Ground	
功率容限Max Input Power per Port (W)	250	

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	8x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1100 x 450 x 150
包装尺寸Packing Size (H×W×D)(mm)	1550×555×510
天线净重Antenna Net Weight(kg)	18.5
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-18
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1100
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	698/233/768 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



4*1710-2690MHz

65/65/65/65deg 17/17/17/17dBi XXXXpol 8-port antenna

Integrated and replaceable RCU, each band individually adjustable

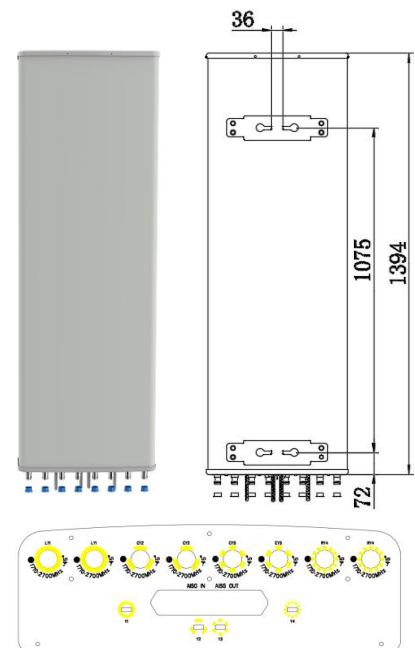
8x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y1/Y2/Y3/Y4: 1710-2690		
		1710-1920	1920-2300	2300-2690
增益Gain (dBi)	中间倾角At mid tilt	16.2	16.7	17.0
	所有倾角Over all tilts	16.0±0.5	16.5±0.4	16.8±0.5
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		67±4.5	65±3.6	61±4.2
垂直波瓣宽度Vertical 3 dB beam width (°)		6.5±0.7	5.5±0.5	4.5±0.5
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15.0	≥15.0	≥15.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥18.0	≥17.0	≥19.0
前后比Front to Back Ratio, ±30°(dB)		≥26.0	≥27.0	≥26.0
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥28		
波束隔离Beam to Beam Isolation (dB)		≥30		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153		
阻抗Impedance(Ω)		50		
接地方式Grounding		直流接地DC Ground		
功率容限Max Input Power per Port (W)		250		

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	8x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1395 x 450 x 150
包装尺寸Packing Size (H×W×D)(mm)	1735×555×310
天线净重Antenna Net Weight(kg)	25
安装夹具重量Installation Kit Weight(kg)	4.7 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1400
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	885/295/974 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



5*1710-2690MHz

14/14/14/14/14deg 21/21/21/21/21dBi XXXXXpol 10-port antenna

Penta-beam antenna and Fixed tilt

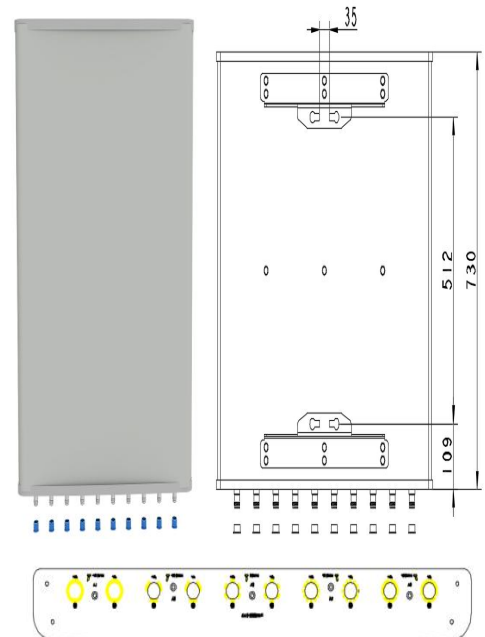
10x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y1/Y2/Y3/Y4/Y5: 1710-2690		
		1710-1920	1920-2300	2300-2690
增益Gain (dBi)	中间倾角At mid tilt	20.5	21.0	21.5
	所有倾角Over all tilts	20.5±1	21.0±1	21.5±1
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		15±4	14±4	13±3
垂直波瓣宽度Vertical 3 dB beam width (°)		12.0±1	11.5±1	11.0±1
电下倾角Electrical downtilt (°)		6, 固定倾角Fixed Tilt		
波束中心偏移角度Beam Center Direction-Horizontal(°)		-40/-20/0/+20/+40		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥16.0		
交叉极化比Cross Polar Ratio (0°)(dB)		≥25.0		
前后比Front to Back Ratio, ±30°(dB)		≥25.0		
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥25		
波束隔离Beam to Beam Isolation (dB)		>16		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153		
阻抗Impedance(Ω)		50		
接地方式Grounding		直直接地DC Ground		
功率容限Max Input Power per Port (W)		250		

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	10x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	730 x 770 x 98
包装尺寸Packing Size (H×W×D)(mm)	970×860×215
天线净重Antenna Net Weight(kg)	16.8
安装夹具重量Installation Kit Weight(kg)	5.5 (2 units)
机械倾角Mechanical Downtilt(°)	0-18
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1400
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	887/182/1109 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



790-960/1710-2690MHz

65/65deg 16/18dBi XXpol 4-port Antenna

Integrated and replaceable RCU, each band individually adjustable

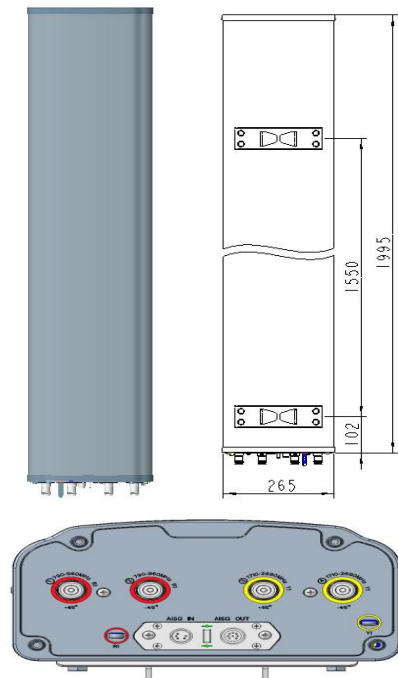
4x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 790-960			Y1: 1710-2690		
		790-824	824-894	880-960	1710-1920	1920-2170	2300-2690
增益Gain (dBi)	中间倾角At mid tilt	15.1	15.3	15.5	16.8	17.3	17.8
	所有倾角Over all tilts	15±0.5	15.3±0.4	15.5±0.5	16.8±0.6	17.3±0.5	17.8±0.6
极化方式Polarization		+45°/-45°					
水平波瓣宽度Horizontal 3 dB beam width (°)		67±5	65±5	63±5	68±5	65±5	60±5
垂直波瓣宽度Vertical 3 dB beam width (°)		9±1	9±1	8±1	7±1	6±1	5±1
电下倾角Electrical downtilt (°)		0-8, 可连续调节continuously adjustable					
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15	≥15	≥15	≥15	≥15	≥15
交叉极化比Cross Polar Ratio (0°)(dB)		≥15	≥15	≥15	≥15	≥15	≥15
前后比Front to Back Ratio, ±30°(dB)		≥25	≥25	≥25	≥25	≥25	≥25
驻波比VSWR		<1.5					
端口隔离Port to Port Isolation (dB)		≥25					
波束隔离Beam to Beam Isolation (dB)		>28					
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153					
阻抗Impedance(Ω)		50					
接地方式Grounding		直流接地DC Ground					
功率容限Max Input Power per Port (W)		250					

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4.3-10(F)x4
天线尺寸Antenna Dimension (H x W x D) (mm)	1995 x 265 x 144
包装尺寸Packing Size (H×W×D)(mm)	2300×340×265
天线净重Antenna Net Weight(kg)	16.2
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1800
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	739/402/863 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



SL-1L2M-2P60017-4P172718-E12-V01 【SL17407B】

低中频6端口电调天线

1L2M 6port independent electrically adjustable antenna



617-894/2*1710-2690MHz

65/65/65deg 17/18/18dBi XXXpol 6-port antenna

Integrated and replaceable RCU, each band individually adjustable

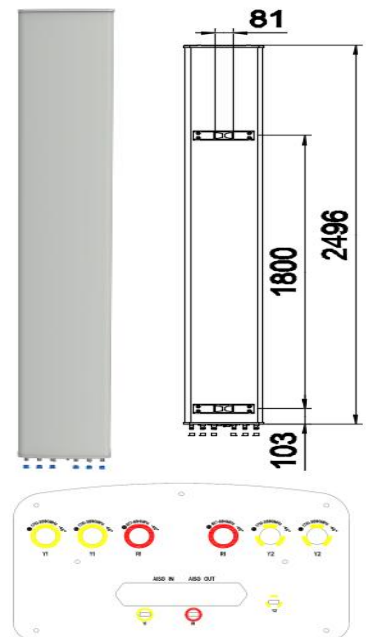
6x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 617-894			Y1/Y2: 1710-2690			
		617-698	698-798	798-894	1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	14.8	15.3	15.6	15.8	16	16.5	16.8
	所有倾角Over all tilts	14.8±0.5	15.3±0.5	15.6±0.5	15.5±0.5	16±0.5	16.5±0.5	16.8±0.5
极化方式Polarization		+45°/-45°						
水平波瓣宽度Horizontal 3 dB beam width (°)		68±5	65±5	63±5	68±6	65±6	63±4	61±3
垂直波瓣宽度Vertical 3 dB beam width (°)		9±0.6	8.5±0.4	8±0.4	7.0±0.5	6.5±0.5	6.0±0.4	5.5±0.3
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable						
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥17.0	≥17.0	≥17.0	≥17.0	≥17.0	≥17.0	≥17.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0
前后比Front to Back Ratio, ±30°(dB)		≥25.0	≥25.0	≥25.0	≥25.0	≥25.0	≥25.0	≥25.0
驻波比VSWR		<1.5						
端口隔离Port to Port Isolation (dB)		≥28						
波束隔离Beam to Beam Isolation (dB)		≥30						
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153						
阻抗Impedance(Ω)		50						
接地方式Grounding		直流接地DC Ground						
功率容限Max Input Power per Port (W)		350						

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	6x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	2500 x 350 x 200
包装尺寸Packing Size (H×W×D)(mm)	2800×480×325
天线净重Antenna Net Weight(kg)	27
安装夹具重量Installation Kit Weight(kg)	5.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-10
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>2000
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	1133/719/1385 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



698-960/3*1710-2690MHz

30/30/30/30deg 18/20/20/20dBi XXXXpol 8-port antenna

Integrated and replaceable RCU, each band individually adjustable

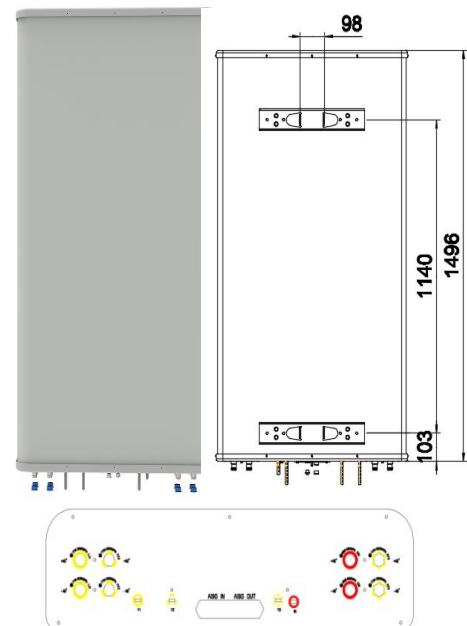
8x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 698-960			Y1/Y2/Y3: 1710-2690			
		698-806	790-894	880-960	1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	17	17.5	18	18.5/18	19/18.5	19.5/19	20/19.5
	所有倾角Over all tilts	17±0.5	17.5±0.5	18±0.5	18.5±0.5	18.8±0.5	19.5±0.5	19.8±0.5
极化方式Polarization		+45°/-45°						
水平波瓣宽度Horizontal 3 dB beam width (°)		35±5	33±5	30±5	35±5	33±5	30±5	35±5
垂直波瓣宽度Vertical 3 dB beam width (°)		10.0±0.9	9.5±1	9.0±1	8±1	7.5±8	6.5±1	8±1
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable						
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥16.0	≥16.0	≥16.0	≥16.0	≥16.0	≥17.0	≥16.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥16.0	≥15.0
前后比Front to Back Ratio, ±30°(dB)		≥27.0	≥28.0	≥28.0	≥27.0	≥28.0	≥28.0	≥27.0
驻波比VSWR		<1.5						
端口隔离Port to Port Isolation (dB)		≥30						
波束隔离Beam to Beam Isolation (dB)		≥30						
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-150						
阻抗Impedance(Ω)		50						
接地方式Grounding		直流接地DC Ground						
功率容限Max Input Power per Port (W)		350						

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	8x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D)(mm)	1500 x 750 x 200
包装尺寸Packing Size (H×W×D)(mm)	1760×895×340
天线净重Antenna Net Weight(kg)	48
安装夹具重量Installation Kit Weight(kg)	7.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1400
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	1746/423/1825 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



690-960/6*1695-2690 MHz

65/33/33/33/33/65/65deg 17/19/19/19/19/18/18dBi XXpol 14-port antenna

Integrated and replaceable RCU, each band individually adjustable

14x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 690-960		
		690-824	824-880	880-960
增益Gain (dBi)	中间倾角At mid tilt	15.5	16	16.5
	所有倾角Over all tilts	15.5±0.5	16±0.5	16.5±0.5
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		68±5	65±4	61±4
垂直波瓣宽度Vertical 3 dB beam width (°)		11.2±1.0	10.2±0.8	8.7±0.7
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥17.0	≥17.0	≥17.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥17.0	≥17.0	≥17.0
前后比Front to Back Ratio, ±30°(dB)		≥27.0	≥27.0	≥27.0
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥26		
波束隔离Beam to Beam Isolation (dB)		≥28		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153		
阻抗Impedance(Ω)		50		
接地方式Grounding		直流接地DC Ground		
功率容限Max Input Power per Port (W)		350		

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		(Y2,Y4)(Y3,Y5): 1695-2690			
		1695-1920	1920-2170	2300-2490	2190-2690
增益Gain (dBi)	中间倾角At mid tilt	17.5	18.3	18.6	18.5
	所有倾角Over all tilts	17.5±0.5	18.3±0.5	18.6±0.5	18.5±0.5
极化方式Polarization		+45°/-45°			
水平波瓣宽度Horizontal 3 dB beam width (°)		35.0±4.0	31.0±2.0	29.0±2.0	26.0±2.0
垂直波瓣宽度Vertical 3 dB beam width (°)		8.8±0.9	7.8±0.7	6.9±0.7	6.6±0.6
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable			
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥17.0	≥17.0	≥17.0	≥17.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥17.0	≥17.0	≥17.0	≥17.0
前后比Front to Back Ratio, ±30°(dB)		≥27.0	≥27.0	≥27.0	≥27.0
驻波比VSWR		<1.5			
端口隔离Port to Port Isolation (dB)		≥27			
波束隔离Beam to Beam Isolation (dB)		≥27			
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153			
阻抗Impedance(Ω)		50			
接地方式Grounding		直流接地DC Ground			
功率容限Max Input Power per Port (W)		250			

690-960/6*1695-2690 MHz

65/33/33/33/33/65/65deg 17/19/19/19/19/18/18dBi XXpol 14-port antenna

Integrated and replaceable RCU, each band individually adjustable

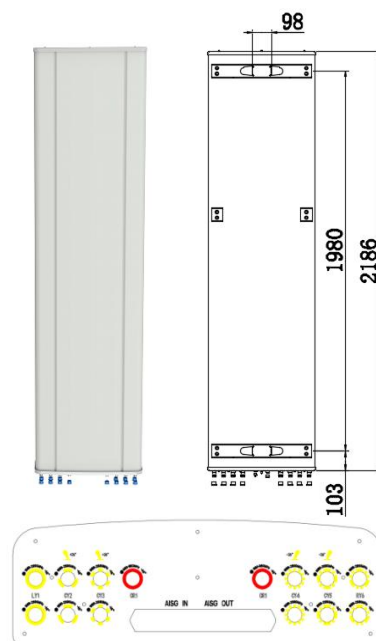
14x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y1/Y6: 1695-2690			
		1695-1920	1920-2170	2300-2490	2190-2690
增益Gain (dBi)	中间倾角At mid tilt	17.3	17.7	18.1	17.9
	所有倾角Over all tilts	17.3±0.5	17.7±0.5	18.1±0.5	17.5±0.5
极化方式Polarization		+45°/-45°			
水平波瓣宽度Horizontal 3 dB beam width (°)		67.0±4.0	63.0±2.0	61.0±2.0	59.0±2.0
垂直波瓣宽度Vertical 3 dB beam width (°)		6.3±0.9	5.5±0.7	4.8±0.7	4.1±0.6
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable			
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥17.0	≥17.0	≥17.0	≥17.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥17.0	≥17.0	≥17.0	≥16.0
前后比Front to Back Ratio, ±30°(dB)		≥27.0	≥27.0	≥27.0	≥27.0
驻波比VSWR		<1.5			
端口隔离Port to Port Isolation (dB)		≥26			
波束隔离Beam to Beam Isolation (dB)		≥28			
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153			
阻抗Impedance(Ω)		50			
接地方式Grounding		直流接地DC Ground			
功率容限Max Input Power per Port (W)		250			

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	14x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	2190 x 560 x 180
包装尺寸Packing Size (H×W×D)(mm)	2515×685×320
天线净重Antenna Net Weight(kg)	52
安装夹具重量Installation Kit Weight(kg)	12.7 (3 units)
机械倾角Mechanical Downtilt(°)	0-10
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>2000
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	1738/503/1912 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



SL-1L5M-2P60017-10P172718-E12-V01【SL17385C】

低中频12端口电调天线 (

1L5M 12port independent electrically adjustable antenna



617-894/5*1710-2690MHz

65/65/65/65/65/65deg 16/17/17/17/17/17dBi XXXXXXpol 12-port antenna

Integrated and replaceable RCU, each band individually adjustable

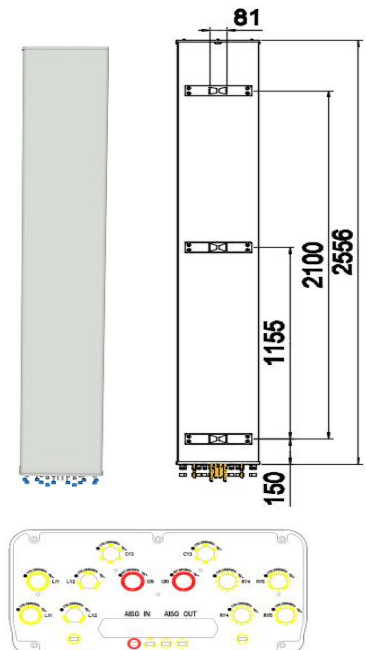
12x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 617-894			Y1,Y3,Y5/Y2,Y4:1710-2690			
		617-698	698-798	790-894	1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	14.8	15.3	15.8	15.5/15	15.7/15.2	16.5/16	15.9/15.4
	所有倾角Over all tilts	14.8±0.5	15.3±0.5	15.8±0.5	15.5±0.5/ 15±0.5	15.7±0.5/ 15.2±0.5	16.5±0.5/ 16±0.5	15.9±0.5/ 15.4±0.5
极化方式Polarization		+45°/-45°						
水平波瓣宽度Horizontal 3 dB beam width (°)		68±5	65±4	61±4	67±5	65±4	60±4	58±3
垂直波瓣宽度Vertical 3 dB beam width (°)		14.0±2	12.0±1.5	10.0±1.5	10.0±2	9.0±1.5	8.0±1.0	7.0±1.0
电下倾角Electrical downtilt (°)		0-10, 可连续调节continuously adjustable						
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0
前后比Front to Back Ratio, ±30°(dB)		≥25.0	≥25.0	≥25.0	≥25.0	≥25.0	≥25.0	≥25.0
驻波比VSWR		<1.5						
端口隔离Port to Port Isolation (dB)		≥25						
波束隔离Beam to Beam Isolation (dB)		≥28						
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153						
阻抗Impedance(Ω)		50						
接地方式Grounding		直流接地DC Ground						
功率容限Max Input Power per Port (W)		350						

机械性能指标 Mechanical Properties

天线罩材料Radome Material	UPVC
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	12x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	2560 x 398 x 195
包装尺寸Packing Size (H×W×D)(mm)	2870×510×330
天线净重Antenna Net Weight(kg)	38
安装夹具重量Installation Kit Weight(kg)	7.5 (3 units)
机械倾角Mechanical Downtilt(°)	0-10
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>2400
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	1437/634/1581 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



SL-1L5M-2P60016-10P172717-E12-V01【SL17385L】

低中频12端口电调天线

1L5M 12port independent electrically adjustable antenna



617-894/5*1710-2690 MHz

65/65/65/65/65/65deg 17/18/18/18/18/18dBi XXXXXpol 12-port antenna

Integrated and replaceable RCU, each band individually adjustable

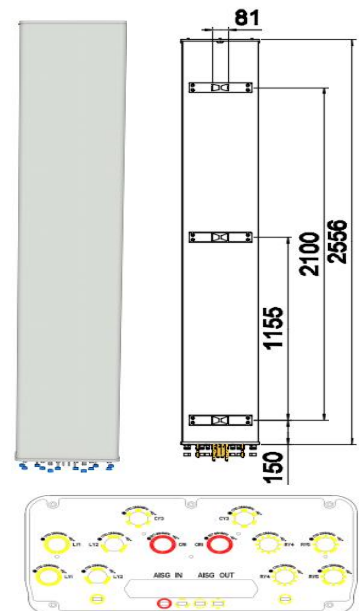
12x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 617-894			Y1,Y3,Y5/Y2,Y4: 1710-2690			
		617-698	698-796	790-894	1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	15.8	16.3	16.8	16.4/15.9	17.2/16.7	17.8/17.3	17.4/16.9
	所有倾角Over all tilts	15.7±0.5	16.0±0.5	1±0.5	16.4±0.5/ 15.9±0.5	17.2±0.5/ 16.7±0.5	17.8±0.5/ 17.3±0.5	17.4±0.5/ 6.9±0.5
极化方式Polarization		+45°/-45°						
水平波瓣宽度Horizontal 3 dB beam width (°)		66±4	65±3	64±2.5	65±4	61±3.5	60±3	58±2.5
垂直波瓣宽度Vertical 3 dB beam width (°)		9.8±0.6	8.5±0.4	7.5±0.3	7.0±0.8	6.4±0.6	5.5±0.6	5.0±0.4
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable						
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0
前后比Front to Back Ratio, ±30°(dB)		≥25.0	≥25.0	≥25.0	≥25.0	≥25.0	≥25.0	≥25.0
驻波比VSWR		<1.5						
端口隔离Port to Port Isolation (dB)		≥25						
波束隔离Beam to Beam Isolation (dB)		≥28						
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-150						
阻抗Impedance(Ω)		50						
接地方式Grounding		直流接地DC Ground						
功率容限Max Input Power per Port (W)		350W						

机械性能指标 Mechanical Properties

天线罩材料Radome Material	UPVC
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	12x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D (mm))	2560 x 398 x 195
包装尺寸Packing Size (H×W×D)(mm)	2870×510×330
天线净重Antenna Net Weight(kg)	38
安装夹具重量Installation Kit Weight(kg)	7.5 (3 units)
机械倾角Mechanical Downtilt(°)	0-10
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>2400
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	1437/634/1581 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*820-960/2*1710-2170MHz

65/65/65/65deg 15/15/17.5/17.5dBi XXXXpol 8-port antenna

Integrated and replaceable RCU, each band individually adjustable

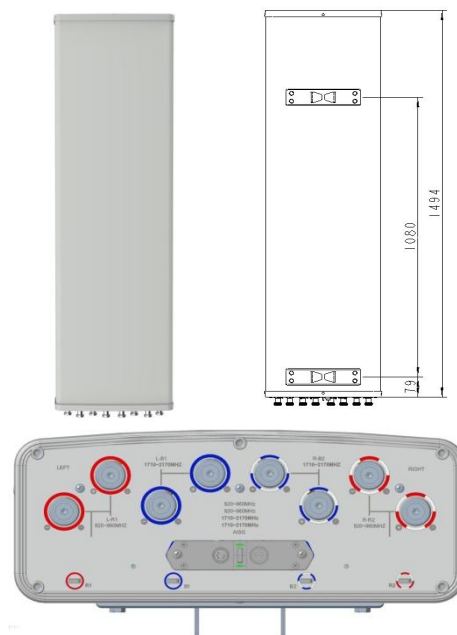
8x7/16Din(F) connectors @bottom

电性能指标 Electrical Properties

电性能指标 Electrical Properties		R1/R2	B1/B2
频率范围Frequency range (MHz)		820-960	1710-2170
增益Gain (dBi)	中间倾角At mid tilt	/	/
	所有倾角Over all tilts	≥15	≥17.5
极化方式Polarization		+45°/-45°	
水平波瓣宽度Horizontal 3 dB beam width (°)		65±6	
垂直波瓣宽度Vertical 3 dB beam width (°)		≥13	≥6
电下倾角Electrical downtilt (°)		0-14	2-12
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15	
交叉极化比Cross Polar Ratio (0°)(dB)		0°≥15 ±60°≥10	
前后比Front to Back Ratio, ±30°(dB)		≥25	
驻波比VSWR		≤1.4	
端口隔离Port to Port Isolation (dB)		≥28	
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153	
阻抗Impedance(Ω)		50	
接地方式Grounding		直流接地DC Ground	
功率容限Max Input Power per Port (W)		250	

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	8x7/16Din(F)
天线尺寸Antenna Dimension (H x W x D (mm))	1494 x 416 x 164
包装尺寸Packing Size (H×W×D)(mm)	1710×500×275
天线净重Antenna Net Weight(kg)	32
安装夹具重量Installation Kit Weight(kg)	5.4 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-80
抱杆长度Pole Length(mm)	>1500
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	1007/397/1074N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*880-960/2*1710-1850MHz

65/65/65/65deg 14.5/14.5/17/17dBi XXXXpol 4-port antenna

Integrated and replaceable RCU, each band individually adjustable

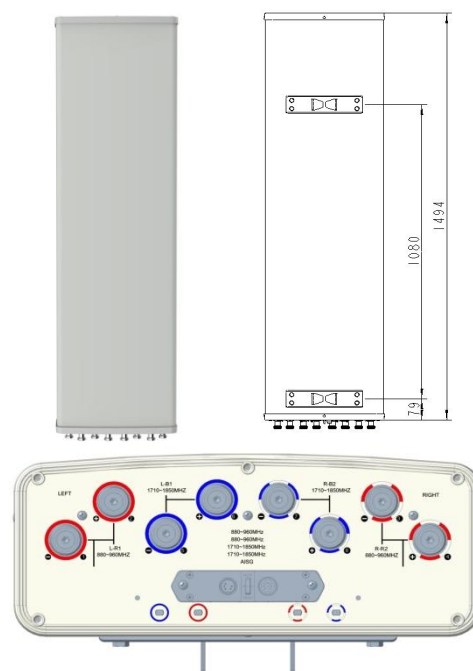
8x7/16Din(F) connectors @bottom

电性能指标 Electrical Properties

电性能指标 Electrical Properties		R1/R2	B1/B2
频率范围Frequency range (MHz)		880-960	1710-1850
增益Gain (dBi)	中间倾角At mid tilt	/	/
	所有倾角Over all tilts	≥ 14.5	≥ 17
极化方式Polarization		+45°/-45°	+45°/-45°
水平波瓣宽度Horizontal 3 dB beam width (°)		65±6	65±6
垂直波瓣宽度Vertical 3 dB beam width (°)		≥ 12	≥ 7
电下倾角Electrical downtilt (°)		0-14	2-12
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥ 15	
交叉极化比Cross Polar Ratio (0°)(dB)		0° ≥ 15 $\pm 60^\circ \geq 8$	
前后比Front to Back Ratio, $\pm 30^\circ$ (dB)		≥ 25	
驻波比VSWR		≤ 1.5	
端口隔离Port to Port Isolation (dB)		≥ 25	
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤ -150	
阻抗Impedance(Ω)		50	
接地方式Grounding		直流接地DC Ground	
功率容限Max Input Power per Port (W)		250	

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	8x7/16Din(F)
天线尺寸Antenna Dimension (H x W x D (mm))	1494 x 416 x 164
包装尺寸Packing Size (H×W×D)(mm)	1710×500×275
天线净重Antenna Net Weight(kg)	32
安装夹具重量Installation Kit Weight(kg)	5.4 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-80
抱杆长度Pole Length(mm)	>1500
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	1007/397/1074N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*820-960/2*1710-2170MHz

65/65/65/65deg 16.5/16.5/17.5/17.5dBi XXXXpol 4-port antenna

Integrated and replaceable RCU, each band individually adjustable

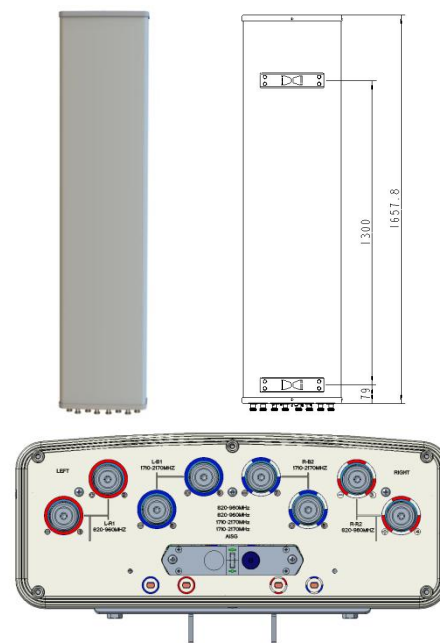
8x7/16Din(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1/R2	B1/B2
		820-960	1710-2170
增益Gain (dBi)	中间倾角At mid tilt	/	/
	所有倾角Over all tilts	≥16.5	≥17.5
极化方式Polarization		+45°/-45°	
水平波瓣宽度Horizontal 3 dB beam width (°)		65±6	
垂直波瓣宽度Vertical 3 dB beam width (°)		≥9	≥6
电下倾角Electrical downtilt (°)		2-12	
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15	
交叉极化比Cross Polar Ratio (0°)(dB)		±30°≥15 ±30°~60°≥10	
前后比Front to Back Ratio, ±30°(dB)		≥25	
驻波比VSWR		≤1.4	
端口隔离Port to Port Isolation (dB)		≥28	
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153	
阻抗Impedance(Ω)		50	
接地方式Grounding		直流接地DC Ground	
功率容限Max Input Power per Port (W)		250	

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	8x7/16Din(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1658 x 416 x 164
包装尺寸Packing Size (H×W×D)(mm)	1880×500×275
天线净重Antenna Net Weight(kg)	21
安装夹具重量Installation Kit Weight(kg)	4 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-110
抱杆长度Pole Length(mm)	>1400
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	1120/441/1194 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*880-960/2*1710-1850MHz

65/65/65/65deg 16/16/17/17dBi XXXXpol 4-port antenna

Integrated and replaceable RCU, each band individually adjustable

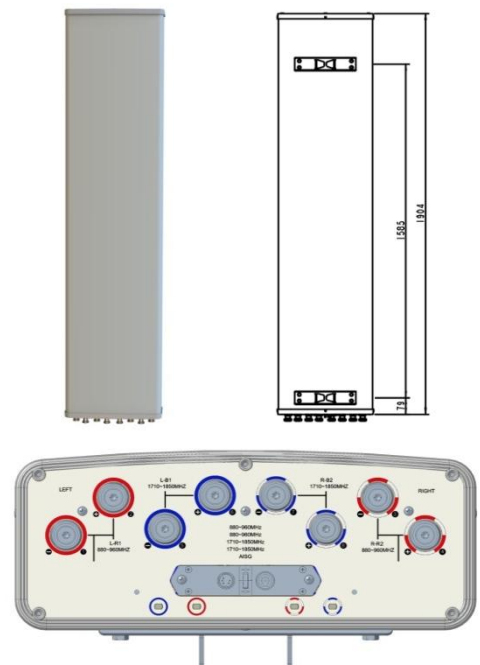
8x7/16Din(F) connectors @bottom

电性能指标 Electrical Properties

电性能指标 Electrical Properties		R1/R2	B1/B2
频率范围Frequency range (MHz)		880-960	1710-1850
增益Gain (dBi)	中间倾角At mid tilt	/	/
	所有倾角Over all tilts	≥ 16	≥ 17
极化方式Polarization		+45°/-45°	+45°/-45°
水平波瓣宽度Horizontal 3 dB beam width (°)		65±5	65±5
垂直波瓣宽度Vertical 3 dB beam width (°)		≥ 8	≥ 7
电下倾角Electrical downtilt (°)		2-12	
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥ 15	
交叉极化比Cross Polar Ratio (0°)(dB)		0° ≥ 15 ±60° ≥ 8	
前后比Front to Back Ratio, ±30°(dB)		≥ 25	
驻波比VSWR		≤ 1.5	
端口隔离Port to Port Isolation (dB)		≥ 25	
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤ -150	
阻抗Impedance(Ω)		50	
接地方式Grounding		直流接地DC Ground	
功率容限Max Input Power per Port (W)		250	

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	8x7/16Din(F)
天线尺寸Antenna Dimension (H x W x D) (mm)	1904 x 416 x 164
包装尺寸Packing Size (H×W×D)(mm)	2120×500×275
天线净重Antenna Net Weight(kg)	40
安装夹具重量Installation Kit Weight(kg)	5.4 (2 units)
机械倾角Mechanical Downtilt(°)	0-12
支持抱杆直径范围Mast Diameter Supported(mm)	50-80
抱杆长度Pole Length(mm)	>1700
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	1287/507/1372 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*698-960/2*1710-2690MHz

65/65/65/65deg 14/14/17/17dBi XXXXpol 8-port Antenna

Integrated and replaceable RCU, each band individually adjustable

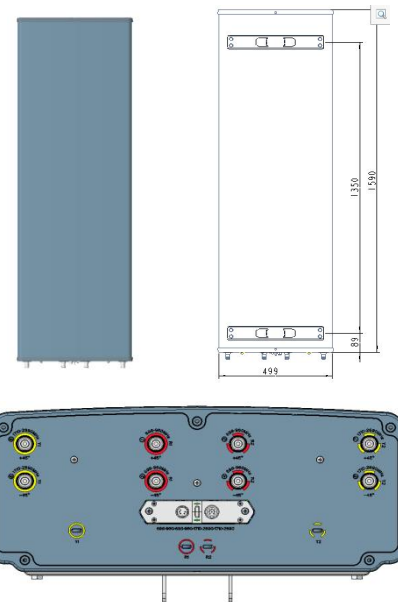
8x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1/R2: 698-960			Y1/Y2: 1710-2690			
		698-824	824-880	880-960	1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	12.8	13.6	14.2	15.8	16.3	16.6	16.8
	所有倾角Over all tilts	12.8±0.7	13.6±0.6	14.2±0.5	15.8±0.7	16.3±0.6	16.6±0.6	16.8±0.5
极化方式Polarization		+45°/-45°						
水平波瓣宽度Horizontal 3 dB beam width (°)		68±5	65±4	61±4	67±5	65±4	60.0±4.0	58±3
垂直波瓣宽度Vertical 3 dB beam width (°)		17±0.7	15±0.7	13±0.7	6±0.7	5.5±0.7	4.8±0.7	4±0.7
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable						
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥17	≥17	≥16	≥15	≥15	≥15	≥15
交叉极化比Cross Polar Ratio (0°)(dB)		≥17	≥17	≥17	≥17	≥17	≥17	≥16
前后比Front to Back Ratio, ±30°(dB)		≥22	≥23	≥24	≥26	≥27	≥27	≥27
驻波比VSWR		<1.5						
端口隔离Port to Port Isolation (dB)		≥25						
波束隔离Beam to Beam Isolation (dB)		≥28						
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153						
阻抗Impedance(Ω)		50						
接地方式Grounding		直流接地DC Ground						
功率容限Max Input Power per Port (W)		250						

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4.3-10(F)x8
天线尺寸Antenna Dimension (H x W x D) (mm)	1590 x 499 x 205
包装尺寸Packing Size (H×W×D)(mm)	1920×630×350
天线净重Antenna Net Weight(kg)	22.7
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	2-12
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1400
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	953/341/1027 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



790-960/1710-2690MHz

65/65/65/65deg 16/18/18dBi XXXXpol 6-port Antenna

Integrated and replaceable RCU, each band individually adjustable

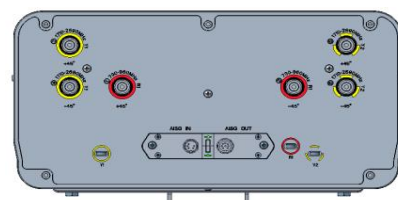
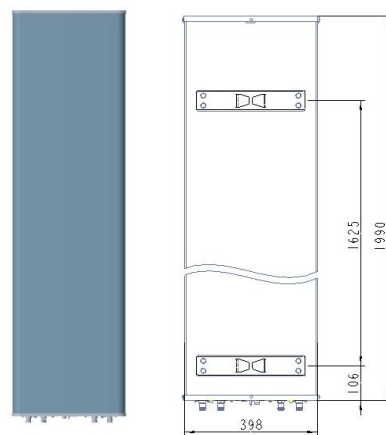
6x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 790-960			Y1/Y2: 1710-2690		
		790-824	824-894	880-960	1710-1920	1920-2170	2300-2690
增益Gain (dBi)	中间倾角At mid tilt	15.1	15.3	15.5	17.3	17.5	17.8
	所有倾角Over all tilts	15±0.5	15.3±0.4	15.5±0.5	17.3±0.6	17.5±0.5	17.8±0.6
极化方式Polarization		+45°/-45°					
水平波瓣宽度Horizontal 3 dB beam width (°)		67±5	65±5	63±5	68±5	65±5	60±5
垂直波瓣宽度Vertical 3 dB beam width (°)		9±1	9±1	8±1	7.5±1	6.5±1	5.5±1
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable					
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15	≥15	≥15	≥15	≥15	≥15
交叉极化比Cross Polar Ratio (0°)(dB)		≥15	≥15	≥15	≥15	≥15	≥15
前后比Front to Back Ratio, ±30°(dB)		≥25	≥25	≥25	≥23	≥23	≥23
驻波比VSWR		<1.5					
端口隔离Port to Port Isolation (dB)		≥25					
波束隔离Beam to Beam Isolation (dB)		≥28					
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153					
阻抗Impedance(Ω)		50					
接地方式Grounding		直流接地DC Ground					
功率容限Max Input Power per Port (W)		350					

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4.3-10(F)x6
天线尺寸Antenna Dimension (H x W x D (mm))	1990 x 398 x 195
包装尺寸Packing Size (H×W×D)(mm)	2245×490×350
天线净重Antenna Net Weight(kg)	22
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1800
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	999/428/1165 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



790-960/1710-2690MHz

65/65/65/65deg 16/18/18/18dBi XXXXpol 8-port Antenna

Integrated and replaceable RCU, each band individually adjustable

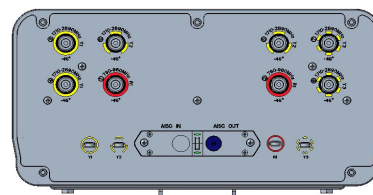
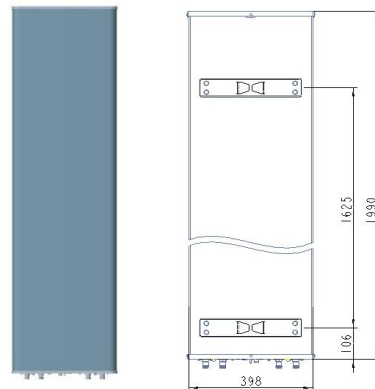
8x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 790-960			Y1/Y2/Y3: 1710-2690		
		790-824	824-894	880-960	1710-1920	1920-2170	2300-2690
增益Gain (dBi)	中间倾角At mid tilt	15.1	15.3	15.5	16.8	17.3	17.8
	所有倾角Over all tilts	15±0.5	15.3±0.4	15.5±0.5	16.8±0.6	17.3±0.5	17.8±0.6
极化方式Polarization		+45°/-45°					
水平波瓣宽度Horizontal 3 dB beam width (°)		67±5	65±5	63±5	68±5	65±5	60±5
垂直波瓣宽度Vertical 3 dB beam width (°)		9±1	9±1	8±1	7±1	6±1	5±1
电下倾角Electrical downtilt (°)		0-10, 可连续调节continuously adjustable			2-8, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15	≥15	≥15	≥15	≥15	≥15
交叉极化比Cross Polar Ratio (0°)(dB)		≥15	≥15	≥15	≥15	≥15	≥15
前后比Front to Back Ratio, ±30°(dB)		≥25	≥25	≥25	≥23	≥23	≥23
驻波比VSWR		<1.5					
端口隔离Port to Port Isolation (dB)		≥25					
波束隔离Beam to Beam Isolation (dB)		≥28					
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153					
阻抗Impedance(Ω)		50					
接地方式Grounding		直流接地DC Ground					
功率容限Max Input Power per Port (W)		350					

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4.3-10(F)x8
天线尺寸Antenna Dimension (H x W x D)(mm)	1990 x 398 x 195
包装尺寸Packing Size (H×W×D)(mm)	2245×490×350
天线净重Antenna Net Weight(kg)	28
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-15
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1800
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	999/428/1165 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



690-960/3*1695-2690 MHz

65/65/65/65deg 17/18/18/18dBi XXXXpol 8-port antenna

Integrated and replaceable RCU, each band individually adjustable

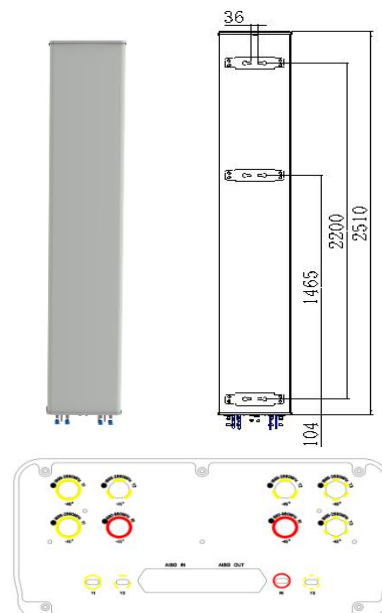
8x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 690-960				Y1/Y2/Y3: 1695-2690			
		690-803	790-862	824-894	880-960	1695-1990	1920-2200	2200-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	16.2	16.5	16.7	17	17.1	17.3	17.1	17.6
	所有倾角Over all tilts	16.1±0.5	16.3±0.4	16.5±0.4	16.8±0.4	16.9±0.5	17.1±0.3	17.0±0.4	17.4±0.5
极化方式Polarization		+45°/-45°							
水平波瓣宽度Horizontal 3 dB beam width (°)		67±5	66±5	65±5	62±5	65±5	63±6	62±5	60±5
垂直波瓣宽度Vertical 3 dB beam width (°)		8.8±1	8.5±0.8	8.0±0.7	7.4±0.6	7.4±1	6.8±0.8	6.0±0.7	5.5±0.6
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable							
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		> 16.0	> 16.0	> 16.0	> 16.0	> 16.0	> 16.0	> 16.0	> 16.0
交叉极化比Cross Polar Ratio (0°)(dB)		> 20.0	> 20.0	> 20.0	> 20.0	> 17.0	> 17.0	> 17.0	> 17.0
前后比Front to Back Ratio, ±30°(dB)		> 25.0	> 25.0	> 25.0	> 25.0	> 24.0	> 24.0	> 25.0	> 25.0
驻波比VSWR		<1.5							
端口隔离Port to Port Isolation (dB)		≥26							
波束隔离Beam to Beam Isolation (dB)		≥30							
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153							
阻抗Impedance(Ω)		50							
接地方式Grounding		直流接地DC Ground							
功率容限Max Input Power per Port (W)		500							

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	4x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D (mm))	2510 x 398 x 195
包装尺寸Packing Size (H×W×D)(mm)	2795×505×285
天线净重Antenna Net Weight(kg)	42
安装夹具重量Installation Kit Weight(kg)	7.5 (3 units)
机械倾角Mechanical Downtilt(°)	0-10
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>2400
工作温度Operating Temperature(°C)	-40~+65
风载Wind Load (at 150 km/h)	1257/528/1354 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



790-960/4*1710-2690MHz

65/65/65/65/65deg 16/17/17/17/17dBi XXXXXpol 10-port antenna

Integrated and replaceable RCU, each band individually adjustable

10x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1: 790-960		
		790-824	824-894	880-960
增益Gain (dBi)	中间倾角At mid tilt	15.1	15.3	15.5
	所有倾角Over all tilts	15.0±0.5	15.3±0.4	15.5±0.5
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		67±5	65±5	63±5
垂直波瓣宽度Vertical 3 dB beam width (°)		9±1	9±1	8±1
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15.0	≥15.0	≥15.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥15.0	≥15.0	≥15.0
前后比Front to Back Ratio, ±30°(dB)		≥25.0	≥25.0	≥25.0
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥25		
波束隔离Beam to Beam Isolation (dB)		≥28		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153		
阻抗Impedance(Ω)		50		
接地方式Grounding		直流感地DC Ground		
功率容限Max Input Power per Port (W)		350		

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y1/Y3: 1710-2690		
		1710-1920	1920-2170	2300-2690
增益Gain (dBi)	中间倾角At mid tilt	16.3	16.5	16.8
	所有倾角Over all tilts	16.3±0.5	16.5±0.5	16.8±0.5
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		68±5	65±6	60±6
垂直波瓣宽度Vertical 3 dB beam width (°)		8±1	7±1	6±1
电下倾角Electrical downtilt (°)		2-14, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15.0	≥15.0	≥15.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥15.0	≥15.0	≥15.0
前后比Front to Back Ratio, ±30°(dB)		≥23.0	≥23.0	≥23.0
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥25		
波束隔离Beam to Beam Isolation (dB)		≥28		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153		
阻抗Impedance(Ω)		50		
接地方式Grounding		直流感地DC Ground		
功率容限Max Input Power per Port (W)		250		

790-960/4*1710-2690MHz

65/65/65/65/65deg 16/17/17/17/17dBi XXXXXpol 10-port antenna

Integrated and replaceable RCU, each band individually adjustable

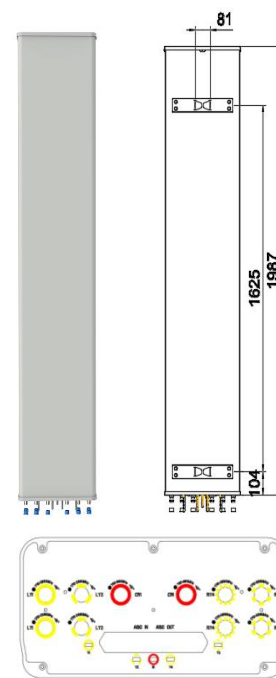
10x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y2/Y4: 1710-2690		
		1710-1920	1920-2170	2300-2690
增益Gain (dBi)	中间倾角At mid tilt	16.1	16.3	16.6
	所有倾角Over all tilts	16.1±0.6	16.3±0.5	16.6±0.6
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		68±5	65±6	60±6
垂直波瓣宽度Vertical 3 dB beam width (°)		7±1	6±1	5±1
电下倾角Electrical downtilt (°)		2-14, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥15.0	≥15.0	≥15.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥15.0	≥15.0	≥15.0
前后比Front to Back Ratio, ±30°(dB)		≥23.0	≥23.0	≥23.0
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥25		
波束隔离Beam to Beam Isolation (dB)		≥28		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153		
阻抗Impedance(Ω)		50		
接地方式Grounding		直流接地DC Ground		
功率容限Max Input Power per Port (W)		250		

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	10x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D)(mm)	1990 x 398 x 195
包装尺寸Packing Size (H×W×D)(mm)	2240×505×330
天线净重Antenna Net Weight(kg)	32
安装夹具重量Installation Kit Weight(kg)	4.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-12
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>1400
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	1117/547/1229 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*690-960/4*1710-2690MHz

65/65/65/65/65/65deg 16/16/17/17/17/17dBi XXXXXXpol 12-port antenna

Integrated and replaceable RCU, each band individually adjustable

12x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1/R2: 690-960		
		690-824	824-880	880-960
增益Gain (dBi)	中间倾角At mid tilt	14.2	14.7	15.5
	所有倾角Over all tilts	14.0±0.5	14.5±0.4	15.3±0.4
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		67±5	61±3	61±3
垂直波瓣宽度Vertical 3 dB beam width (°)		16±0.9	15.5±0.8	15±0.7
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥17.0	≥17.0	≥17.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥18.0	≥21.0	≥19.0
前后比Front to Back Ratio, ±30°(dB)		≥23.0	≥25.0	≥25.0
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥28		
波束隔离Beam to Beam Isolation (dB)		≥26		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-150		
阻抗Impedance(Ω)		50		
接地方式Grounding		直流接地DC Ground		
功率容限Max Input Power per Port (W)		350		

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y1/Y3: 1710-2690			
		1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	16	17	16.5	16.4
	所有倾角Over all tilts	15.8±0.8	16.8±0.5	16.3±0.5	16.2±0.5
极化方式Polarization		+45°/-45°			
水平波瓣宽度Horizontal 3 dB beam width (°)		63±5	59±4	59±5	60±5
垂直波瓣宽度Vertical 3 dB beam width (°)		8.1±0.5	6.9±0.5	6.1±0.4	5.7±0.4
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable			
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥16.0	≥16.0	≥16.0	≥16.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥16.0	≥18.0	≥18.0	≥16.0
前后比Front to Back Ratio, ±30°(dB)		≥27.0	≥27.0	≥27.0	≥26.0
驻波比VSWR		<1.5			
端口隔离Port to Port Isolation (dB)		≥29			
波束隔离Beam to Beam Isolation (dB)		≥27			
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-150			
阻抗Impedance(Ω)		50			
接地方式Grounding		直流接地DC Ground			
功率容限Max Input Power per Port (W)		250			

2*690-960/4*1710-2690MHz

65/65/65/65/65/65deg 16/16/17/17/17/17dBi XXXXXXpol 12-port antenna

Integrated and replaceable RCU, each band individually adjustable

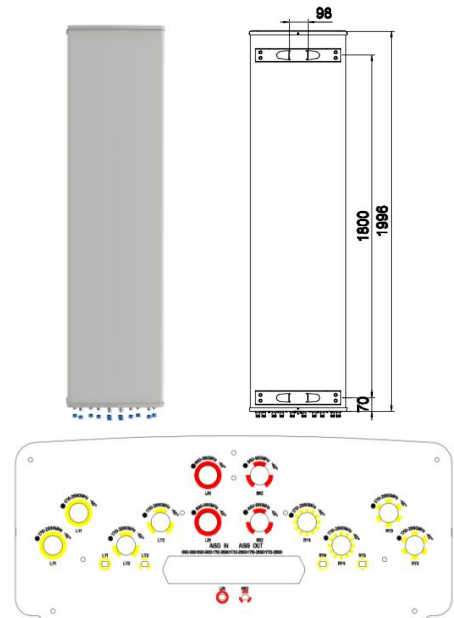
12x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y2/Y4: 1710-2690			
		1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	15.7	16.7	16.2	16.1
	所有倾角Over all tilts	15.5±0.8	16.5±0.5	16.0±0.5	15.9±0.5
极化方式Polarization		+45°/-45°			
水平波瓣宽度Horizontal 3 dB beam width (°)		63±5	59±4	59±5	60±5
垂直波瓣宽度Vertical 3 dB beam width (°)		8.1±0.5	6.9±0.5	6.1±0.4	5.7±0.4
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable			
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥16.0	≥16.0	≥16.0	≥16.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥16.0	≥18.0	≥18.0	≥16.0
前后比Front to Back Ratio, ±30°(dB)		≥27.0	≥27.0	≥27.0	≥26.0
驻波比VSWR		<1.5			
端口隔离Port to Port Isolation (dB)		≥29			
波束隔离Beam to Beam Isolation (dB)		≥27			
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-150			
阻抗Impedance(Ω)		50			
接地方式Grounding		直流接地DC Ground			
功率容限Max Input Power per Port (W)		250			

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	12x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D (mm))	2000 x 499 x 205
包装尺寸Packing Size (H×W×D)(mm)	2320×630×325
天线净重Antenna Net Weight(kg)	47
安装夹具重量Installation Kit Weight(kg)	7.6 (2 units)
机械倾角Mechanical Downtilt(°)	0-10
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>2000
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	1886/752/2075 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



2*690-960/4*1710-2690 MHz

65/65/65/65/65/65deg 16/16/17/17/17/17dBi XXXXXXpol 12-port antenna

Integrated and replaceable RCU, each band individually adjustable

12x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		R1/R2: 690-960		
		690-824	824-880	880-960
增益Gain (dBi)	中间倾角At mid tilt	16.0	16.7	17.0
	所有倾角Over all tilts	15.8±0.5	16.5±0.3	16.8±0.3
极化方式Polarization		+45°/-45°		
水平波瓣宽度Horizontal 3 dB beam width (°)		67±5	61±3	61±3
垂直波瓣宽度Vertical 3 dB beam width (°)		8.0±0.6	7.1±0.2	6.5±0.3
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable		
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥17.0	≥17.0	≥16.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥18.0	≥21.0	≥19.0
前后比Front to Back Ratio, ±30°(dB)		≥23.0	≥25.0	≥25.0
驻波比VSWR		<1.5		
端口隔离Port to Port Isolation (dB)		≥26		
波束隔离Beam to Beam Isolation (dB)		≥28		
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153		
阻抗Impedance(Ω)		50		
接地方式Grounding		直流接地DC Ground		
功率容限Max Input Power per Port (W)		250		

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y1/Y3: 1710-2690			
		1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	16.6	17.4	17.0	16.9
	所有倾角Over all tilts	16.5±0.8	17.3±0.5	16.9±0.5	16.8±0.5
极化方式Polarization		+45°/-45°			
水平波瓣宽度Horizontal 3 dB beam width (°)		63±5	59±4	59±5	60±5
垂直波瓣宽度Vertical 3 dB beam width (°)		7.1±0.5	5.9±0.5	5.1±0.4	4.7±0.4
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable			
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥16.0	≥16.0	≥16.0	≥16.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥16.0	≥18.0	≥18.0	≥16.0
前后比Front to Back Ratio, ±30°(dB)		≥27.0	≥27.0	≥27.0	≥26.0
驻波比VSWR		<1.5			
端口隔离Port to Port Isolation (dB)		≥29			
波束隔离Beam to Beam Isolation (dB)		≥27			
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153			
阻抗Impedance(Ω)		50			
接地方式Grounding		直流接地DC Ground			
功率容限Max Input Power per Port (W)		250			

2*690-960/4*1710-2690 MHz

65/65/65/65/65/65deg 16/16/17/17/17/17dBi XXXXXpol 12-port antenna

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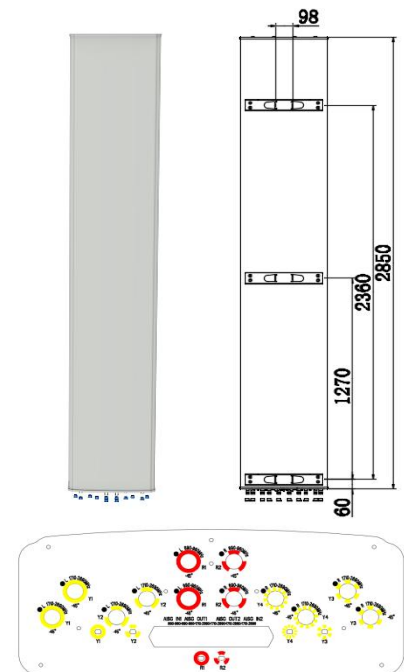
12x4.3-10(F) connectors @bottom

电性能指标 Electrical Properties

频率范围Frequency range (MHz)		Y2/Y4: 1710-2690			
		1710-1920	1920-2170	2300-2490	2490-2690
增益Gain (dBi)	中间倾角At mid tilt	16.4	17.2	16.8	16.7
	所有倾角Over all tilts	16.3±0.8	17.1±0.5	16.7±0.5	16.6±0.5
极化方式Polarization		+45°/-45°			
水平波瓣宽度Horizontal 3 dB beam width (°)		63±5	59±4	59±5	60±5
垂直波瓣宽度Vertical 3 dB beam width (°)		7.1±0.5	5.9±0.5	5.1±0.4	4.7±0.4
电下倾角Electrical downtilt (°)		2-12, 可连续调节continuously adjustable			
上旁瓣抑制First Upper Side Lobe Suppression (Typ.)(dB)		≥16.0	≥16.0	≥16.0	≥16.0
交叉极化比Cross Polar Ratio (0°)(dB)		≥16.0	≥18.0	≥18.0	≥16.0
前后比Front to Back Ratio, ±30°(dB)		≥27.0	≥27.0	≥27.0	≥26.0
驻波比VSWR		<1.5			
端口隔离Port to Port Isolation (dB)		≥29			
波束隔离Beam to Beam Isolation (dB)		≥27			
三阶互调PIM3 (2×43 dBm carrier)(dBc)		≤-153			
阻抗Impedance(Ω)		50			
接地方式Grounding		直流接地DC Ground			
功率容限Max Input Power per Port (W)		250			

机械性能指标 Mechanical Properties

天线罩材料Radome Material	Fiberglass
天线罩颜色Radome Colour	Light grey
接头类型Connector Type	12x4.3-10(F)
天线尺寸Antenna Dimension (H x W x D (mm))	2850 x 499 x 205
包装尺寸Packing Size (H×W×D)(mm)	3200×630×325
天线净重Antenna Net Weight(kg)	57
安装夹具重量Installation Kit Weight(kg)	12.7 (3 units)
机械倾角Mechanical Downtilt(°)	0-10
支持抱杆直径范围Mast Diameter Supported(mm)	50-114
抱杆长度Pole Length(mm)	>2850
工作温度Operating Temperature(°C)	-40-+65
风载Wind Load (at 150 km/h)	1886/752/2075 N (Frontal/Lateral/Rear side)
极限风速Maximum Wind Speed (km/h)	200



电性能指标 Electrical Properties

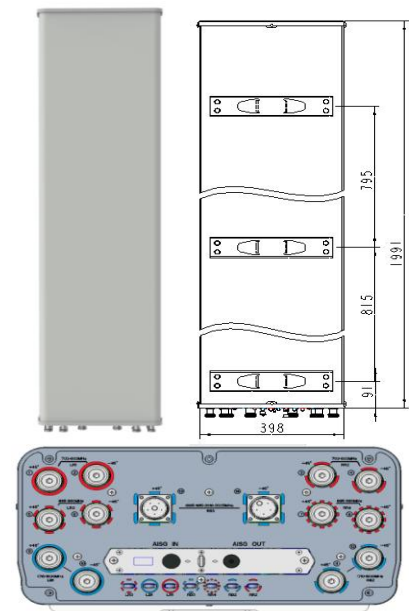
项目名称		FA电性能指标	
频率范围 Frequency range (MHz)		F(1885~1915)	A(2010~2025)
电下倾角范围 Electrical downtilt(°)		2-12	2-12
电下倾角精度 Electrical downtilt tolerance(°)		±1	±1
校准端口至各辐射端口的耦合度 Coupling factor between calibration port and each antenna port(dB)		-26±2	-26±2
校准端口至各辐射端口的幅度最大偏差 Max. amplitude tolerance from calibration port to input ports(dB)		≤0.7	≤0.7
校准端口至各辐射端口的相位最大偏差 Max. phase tolerance from calibration port to input ports (°)		≤5	≤5
校准端口及辐射端口电压驻波比 Ports VSWR		≤1.5	≤1.5
900对F频段的二阶传输互调(dBm) PIM2 between 900 and F		-120	/
平均功率容限 Avg. power capacity per port (W)		≥25	≥25
峰值功率容限 Max. effective power per port (W)		≥250	≥250
同极化辐射端口之间的隔离 Co-polarization isolation between ports(dB)	2°下倾 At 2° tilt	≥25	≥25
	(3-6)°下倾 At (3-6)° tilt	≥25	≥25
	(7-12)°下倾 At (7-12)° tilt	≥25	≥25
异极化辐射端口之间的隔离 Cross-polarization isolation between ports(dB)	2°下倾 At 2° tilt	≥25	≥25
	(3-6)°下倾 At (3-6)° tilt	≥25	≥25
	(7-12)°下倾 At (7-12)° tilt	≥25	≥25
1800/FA频段之间的隔离度 Isolation between 1800 and FA(dB)		≥30	≥30
单元波束 Single column beam	水平面半功率波束宽度 Horizontal 3dB beam width(°)	100±15	90±15
	单元波束增益 Gain(dBi)	≥13.5	≥14.5
	交叉极化比(0°) Cross polar ratio(0°) (dB)	≥15	≥15
	交叉极化比(±60°) Cross polar ratio (±60°) (dB)	≥8	≥8
	前后比 Front to back ratio(dB)	≥23	≥23
广播波束 Broadcast beam	水平面半功率波束宽度 Horizontal 3 dBbeam width(°)	/	65±5
	广播波束增益 Gain(dBi)	≥15	≥14.5
	±32.5°扇区功率占比 Sector power ratio between ± 35 °(%)	72±7	/
	±60°扇区功率占比 Sector power ratio between ± 60 °(%)	≥95	/
	波束±60°边缘功率下降 Edge power reduction between ± 60 °(dB)	12±3	12±3
	垂直面半功率波束宽度 Vertical 3 dBbeam width(°)	≥7	≥6.5
	交叉极化比(0°) Cross polar ratio(0°) (dB)	≥18	≥18
	交叉极化比(±20°) Cross polar ratio (±20°) (dB)	≥20	/
	交叉极化比(±60°) Cross polar ratio (±60°) (dB)	≥8	≥8
	前后比 Front to back ratio(dB)	≥25	≥25
	上旁瓣抑制 (dB) First upper side lobe suppression (Typ.)(dB)	≤-14	≤-14
	下部第一零点填充(dB) Null Fill	≥-18	≥-18
业务波束 Service beam	0°指向波束增益 0°direct beam gain (dBi)	≥19.5	≥20.5
	0°指向波束水平面半功率波束宽度 0°direction beam horizontal 3 dB beam width (°)	≤29	≤26
	0°指向波束水平面副瓣电平 0°direction beam horizontal side lobe voltage(dB)	≤-12	≤-12
	±60°指向波束增益 ±60°direct beam gain (dBi)	≥17	≥17
	±60°指向波束水平面半功率波束宽度 ±60°direction beam horizontal 3 dB beam width (°)	≤32	≤32
	±60°指向波束水平面副瓣电平 ±60°direction beam horizontal side lobe voltage(dB)	≤-5	≤-5
	交叉极化比 (0°) Cross polar ratio(0°) (dB)	≥18	≥18
前后比 (0°) Front to back ratio(0°)(dB)		≥28	≥28

电性能指标 Electrical Properties

项目名称		700&900&1800MHZ指标		
通用参数 General parameters	频率范围 Frequency range (MHz)	703-803	885-960	1710-1830
	极化方式 Polarization	±45	±45°	±45°
	垂直面电调角范围 Vertical electrical downtilt(°)	0-14	0-14	2-12
	电下倾角精度 Electrical downtilt tolerance(°)	±1	±1	±1
电路参数 Electrical parameters	平均功率容限 Avg. power capacity per port (W)	≥80	≥80	≥80
	峰值功率容限 Max. effective power per port (W)	≥80	≥80	≥80
	三阶互调 PIM3(dBm,@43dBm)	≤-107	≤-107	≤-107
	900M和700M对700M的五阶互调 PIM5 between 900M and 700M to 700M (dBm,@43dBm)	≤-107	/	/
	700M和900M对900M的五阶互调 PIM5 between 700M and 900M to 700M (dBm,@43dBm)	/	≤-107	/
	各辐射端口电压驻波比 VSWR between ports(dB)	≤1.5	≤1.5	≤1.5
	隔离度 Isolation (dB)	≥25	≥25	≥25
	端口间隔离度 Isolation between ports(dB)	≥25	≥25	≥25
辐射参数 Radiation parameters	水平面半功率波束宽度 Horizontal 3 dB beam width(°)	70±6	65±6	65+6 , 65-9
	垂直面半功率波束宽度 Vertical 3 dB beam width(°)	≥14	≥12	≥6.5
	增益 Gain(dBi)	≥13	≥14	≥17
	交叉极化比(0°) Cross polar ratio(0°) (dB)	≥15	≥15	≥15
	交叉极化比(±60°) Cross polar ratio (±60°) (dB)	≥8	≥8	≥8
	前后比 Front to back ratio(dB)	≥23	≥25	≥25
	上旁瓣抑制 Side lobe suppression for first side lobe above main beam(dB)	≤-15	≤-15	≤-15
	下部第一零点填充(dB) Null Fill	≥-22	≥-22	≥-22

机械性能指标 Mechanical Properties

天线罩材料 Radome Material	Fiberglass
天线罩颜色 Radome Colour	Light grey
接头类型 Connector Type	12*7/16DIN(F)+2*集束插头
天线尺寸 Antenna Dimension (H x W x D) (mm)	1991 x 398 x 195
包装尺寸 Packing Size (H×W×D)(mm)	2260×560×330
天线净重 Antenna Net Weight(kg)	46
安装夹具重量 Installation Kit Weight(kg)	7.6 (2 units)
机械倾角 Mechanical Downtilt(°)	0-10
支持抱杆直径范围 Mast Diameter Supported(mm)	50-114
抱杆长度 Pole Length(mm)	>1650
工作温度 Operating Temperature(°C)	-40-+65
风载 Wind Load (at 150 km/h)	1893/927/2019 N (Frontal/Lateral/Rear side)
极限风速 Maximum Wind Speed (km/h)	200



电性能指标 Electrical Properties 0.5

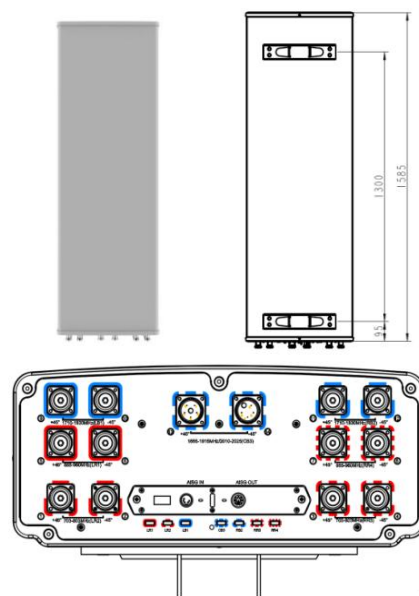
频率范围 Frequency range (MHz)		F(1885~1915)	A(2010~2025)
电下倾角范围 Electrical downtilt(°)		2-12	2-12
电下倾角精度 Electrical downtilt tolerance(°)		±1	±1
校准端口至各辐射端口的耦合度 Coupling factor between calibration port and each antenna port(dB)		-26±2	-26±2
校准端口至各辐射端口的幅度最大偏差 Max. amplitude tolerance from calibration port to input ports(dB)		≤0.7	≤0.7
校准端口至各辐射端口的相位最大偏差 Max. phase tolerance from calibration port to input ports (°)		≤5	≤5
校准端口及辐射端口电压驻波比 Ports VSWR		≤1.5	≤1.5
900对F频段的二阶传输互调(dBm) PIM2 between 900 and F		-120	/
平均功率容限 Avg. power capacity per port (W)		≥25	≥25
峰值功率容限 Max. effective power per port (W)		≥250	≥250
同极化辐射端口之间的隔离 Co-polarization isolation between ports(dB)	2°下倾 At 2° tilt	≥25	≥25
	(3-6)°下倾 At (3-6)° tilt	≥25	≥25
	(7-12)°下倾 At (7-12)° tilt	≥25	≥25
异极化辐射端口之间的隔离 Cross-polarization isolation between ports(dB)	2°下倾 At 2° tilt	≥25	≥25
	(3-6)°下倾 At (3-6)° tilt	≥25	≥25
	(7-12)°下倾 At (7-12)° tilt	≥25	≥25
1800/FA频段之间的隔离度 Isolation between 1800 and FA(dB)		≥30	≥30
单元波束 Single column beam	水平面半功率波束宽度 Horizontal 3dB beam width(°)	100±15	90±15
	单元波束增益 Gain(dBi)	≥13.5	≥14.5
	交叉极化比(0°) Cross polar ratio(0°) (dB)	≥15	≥15
	交叉极化比(±60°) Cross polar ratio (±60°) (dB)	≥8	≥8
	前后比 Front to back ratio(dB)	≥23	≥23
广播波束 Broadcast beam	水平面半功率波束宽度 Horizontal 3 dBbeam width(°)	/	65±5
	广播波束增益 Gain(dBi)	≥15	≥14.5
	±32.5°扇区功率占比 Sector power ratio between ± 35 °(%)	72±7	/
	±60°扇区功率占比 Sector power ratio between ± 60 °(%)	≥95	/
	波束±60°边缘功率下降 Edge power reduction between ± 60 °(dB)	12±3	12±3
	垂直面半功率波束宽度 Vertical 3 dBbeam width(°)	≥7	≥6.5
	交叉极化比(0°) Cross polar ratio(0°) (dB)	≥18	≥18
	交叉极化比(±20°) Cross polar ratio (±20°) (dB)	≥20	/
	交叉极化比(±60°) Cross polar ratio (±60°) (dB)	≥8	≥8
	前后比 Front to back ratio(dB)	≥25	≥25
	上旁瓣抑制 (dB) First upper side lobe suppression (Typ.)(dB)	≤-14	≤-14
	下部第一零点填充(dB) Null Fill	≥-18	≥-18
业务波束 Service beam	0°指向波束增益 0°direct beam gain (dBi)	≥19.5	≥20.5
	0°指向波束水平面半功率波束宽度 0°direction beam horizontal 3 dB beam width (°)	≤29	≤26
	0°指向波束水平面副瓣电平 0°direction beam horizontal side lobe voltage(dB)	≤-12	≤-12
	±60°指向波束增益 ±60°direct beam gain (dBi)	≥17	≥17
	±60°指向波束水平面半功率波束宽度 ±60°direction beam horizontal 3 dB beam width (°)	≤32	≤32
	±60°指向波束水平面副瓣电平 ±60°direction beam horizontal side lobe voltage(dB)	≤-5	≤-5
	交叉极化比 (0°) Cross polar ratio(0°) (dB)	≥18	≥18
	前后比 (0°) Front to back ratio(0°)(dB)	≥28	≥28

电性能指标 Electrical Properties

项目名称		700&900&1800MHZ指标		
通用参数 General parameters	频率范围 Frequency range (MHz)	703-803	885-960	1710-1830
	极化方式 Polarization	±45	±45°	±45°
	垂直面电调角范围 Vertical electrical downtilt(°)	0-14	0-14	2-12
	电下倾角精度 Electrical downtilt tolerance(°)	±1	±1	±1
电路参数 Electrical parameters	平均功率容限 Avg. power capacity per port (W)	≥80	≥80	≥80
	峰值功率容限 Max. effective power per port (W)	≥80	≥80	≥80
	三阶互调 PIM3(dBm,@43dBm)	≤-107	≤-107	≤-107
	900M和700M对700M的五阶互调 PIM5 between 900M and 700M to 700M (dBm,@43dBm)	≤-107	/	/
	700M和900M对900M的五阶互调 PIM5 between 700M and 900M to 700M (dBm,@43dBm)	/	≤-107	/
	各辐射端口电压驻波比 VSWR between ports(dB)	≤1.5	≤1.5	≤1.5
	隔离度 Isolation (dB)	≥25	≥25	≥25
	端口间隔隔离度 Isolation between ports(dB)	≥25	≥25	≥25
辐射参数 Radiation parameters	水平面半功率波束宽度 Horizontal 3 dB beam width(°)	70±6	65±6	65+6, 65-9
	垂直面半功率波束宽度 Vertical 3 dB beam width(°)	≥14	≥12	≥6.5
	增益 Gain(dBi)	≥13	≥14	≥16.5
	交叉极化比(0°) Cross polar ratio(0°) (dB)	≥15	≥15	≥15
	交叉极化比(±60°) Cross polar ratio (±60°) (dB)	≥8	≥8	≥8
	前后比 Front to back ratio(dB)	≥23	≥25	≥25
	上旁瓣抑制 Side lobe suppression for first side lobe above main beam(dB)	≤-15	≤-15	≤-15
	下部第一零点填充(dB) Null Fill	≥-22	≥-22	≥-22

机械性能指标 Mechanical Properties

天线罩材料 Radome Material	Fiberglass
天线罩颜色 Radome Colour	Light grey
接头类型 Connector Type	12*7/16DIN(F)+2*集束接头
天线尺寸 Antenna Dimension (H x W x D) (mm)	1587x499x205
包装尺寸 Packing Size (H×W×D)(mm)	1855×620×345
天线净重 Antenna Net Weight(kg)	46
安装夹具重量 Installation Kit Weight(kg)	7.6 (2 units)
机械倾角 Mechanical Downtilt(°)	0-15
支持抱杆直径范围 Mast Diameter Supported(mm)	50-110
抱杆长度 Pole Length(mm)	>1650
工作温度 Operating Temperature(°C)	-40~+70
风载 Wind Load (at 150 km/h)	1804/741/2062 N (Frontal/Lateral/Rear side)
极限风速 Maximum Wind Speed (km/h)	200



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