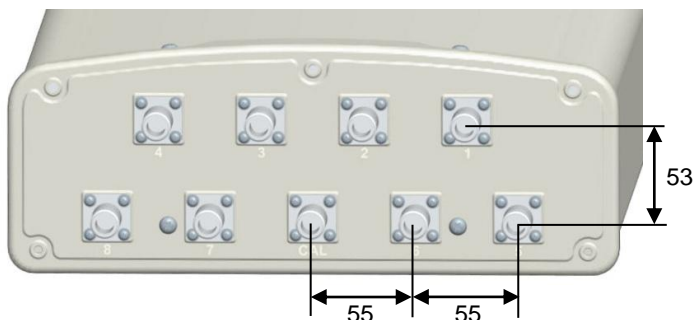
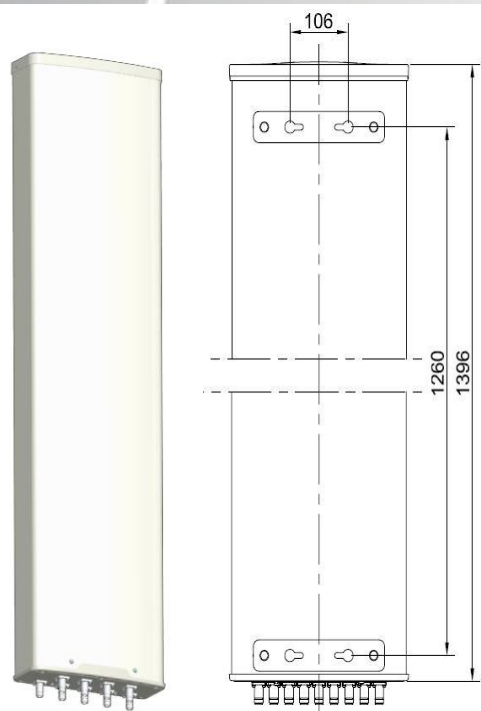


Electrical Properties

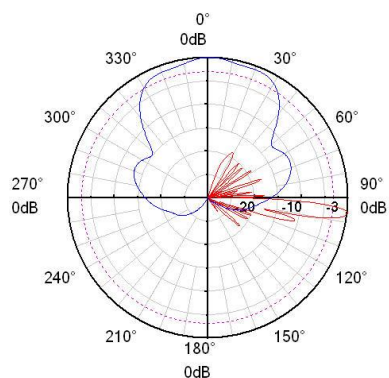
General parameters	Frequency range (MHz)		1880 - 1920 (F)	2010 - 2025 (A)	2500 - 2690 (D)
	Polarization		+45°, -45°		
	Electrical downtilt (°)		6		
	Electrical downtilt tolerance (°)		±1		
	Grounding		DC Ground		
Calibration and electrical parameters	Coupling factor between calibration port and each other port (dB)		-26 ± 2		
	Max. amplitude tolerance from calibration port to other ports (dB)		< 0.7		
	Max. phase tolerance from calibration port to other ports (°)		< 5		
	Ports VSWR		< 1.5		
	Avg. power capacity each port (W)		25		
	Co-polarization isolation between ports (dB)		≥ 28		
	Cross-polarization isolation between ports (dB)		≥ 30		
Radiation parameters	Single column beam	Horizontal 3dB beam width (°)	100 ± 15	90 ± 15	65 ± 15
		Gain (dBi)	≥ 14.0	≥ 15.0	≥ 16.5
		Vertical 3dB beam width (°)	/	/	≥ 5
		Cross polar ratio (0°) (dB)	≥ 20		
		Cross polar ratio (±60°) (dB)	≥ 10		
		Front to back ratio (dB)	≥ 25	≥ 25	≥ 27
		Vertical side lobe suppression above main beam (dB)	/	/	≤ -16
	65° Broadcast beam	Horizontal 3dB beam width (°)	65 ± 5		
		Gain (dBi)	≥ 14	≥ 15	≥ 16
		Gain roll-off at sector edge (dB)	12 ± 2		
		Vertical 3dB beam width (°)	≥ 7.0	≥ 6.5	≥ 5.0
		Cross polar ratio (0°) (dB)	≥ 22		
		Cross polar ratio (±60°) (dB)	≥ 10		
		Front to back ratio (dB)	≥ 28		
		Vertical side lobe suppression above main beam (dB)	≤ -16		
	Service beam	0° direction beam gain (dBi)	≥ 20	≥ 21	≥ 22
		0° direction beam horizontal 3dB beam width (°)	≤ 27	≤ 26	≤ 20
		0° direction beam horizontal side lobe suppression (dB)	≤ -12		
		±60° direction beam gain (dBi)	≥ 18	≥ 18	≥ 19.5
		±60° direction beam horizontal 3dB beam width (°)	≤ 32	≤ 32	≤ 23
		±60° direction beam horizontal side lobe suppression (dB)	≤ -5	≤ -5	≤ 0
		0° direction beam cross polar ratio (0°) (dB)	≥ 22		
		0° direction beam front to back ratio (dB)	≥ 30		

Mechanical Properties

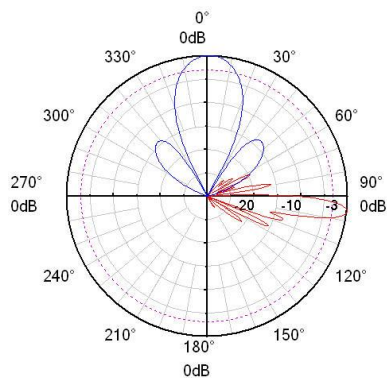
07	75
Antenna dimensions (H x W x D) (mm)	1396 x 319 x 116
Packing dimensions (H x W x D) (mm)	1657 x 410 x 205
Antenna net weight (kg)	13.1
Bracket weight (kg)	3.2
Packing weight (kg)	20.2
Mechanical downtilt (°)	-5 .. 10
Mast diameter (mm)	50 - 115
Radome material	UPVC
Radome colour	Light grey
Operational temperature (°C)	-40 .. +65
Wind load (N)	Frontal: 620 (at 150 km/h) Lateral: 160 (at 150 km/h) Rear side: 680 (at 150 km/h)
Max. operational wind speed (km/h)	150
Survival wind speed (km/h)	200
Connector	9 x N Female
Connector position	Bottom



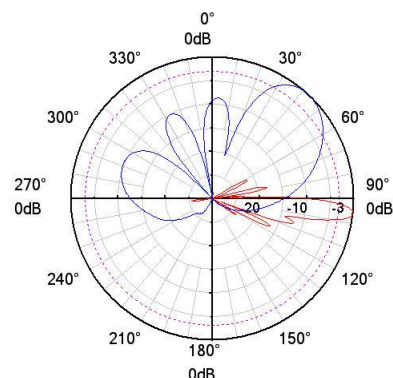
Pattern sample for reference



65° Broadcast



Service 0°



Service 60°

Single column

NOTE

1. Facilities, such as towers and poles, must bear the weight and wind load of antennas.
2. HUAWEI 's standard brackets and accessories must be used for any installation.
3. The antenna working environment must meet the requirements specified in the datasheet.
4. Only qualified personnel are allowed to perform installation. Installation tools and procedures must conform to requirements described in the antenna installation guide.