Antenna Specifications

Electrical Properties							
Frequency range (MHz)		790 - 960			1710 - 2180		
		790 - 862	824 - 894	880 - 960	1710 - 1880	1850 - 1990	1920 - 2180
Polarization		+45°, -45°					
Electrical downtilt (°)		0 - 10 , continuously adjustable			0 - 8 , continuously adjustable		
Gain (dBi)	at mid Tilt	16.7	17.0	17.2	18.4	18.6	18.6
	over all Tilts	16.6 ±0.4	16.9 ±0.3	17.0 ±0.3	18.2 ±0.4	18.4 ±0.4	18.3 ±0.5
Side lobe suppression for first side lobe above main beam (dB)		> 19	> 19	> 19	> 16	> 16	> 18
Horizontal 3dB beam width (°)		69 ±1.5	66 ±1.5	65 ±1.0	64 ±1.5	62 ±1.5	60±2.0
Vertical 3dB beam width (°)		8.4 ±0.5	8.0 ±0.5	7.5 ±0.5	5.2 ±0.3	4.9 ±0.3	4.6 ±0.4
VSWR		< 1.5					
Cross polar isolation (dB)		≥ 30					
Interband isolation (dB)		≥ 40 (790 - 960 // 1710 - 2180 MHz)					
Front to back ratio, ±30° (dB)		> 25	> 25	> 25	> 25	> 25	> 26
Cross polar ratio (dB)	0°	> 30	> 30	> 30	> 20	> 20	> 20
Max. power per input (W)		500 (at 50℃ ambient temperature)			300 (at 50℃ ambient temperature)		
Intermodulation IM3 (dBc)		≤ -153 (2 x 43 dBm carrier)					
Impedance (Ω)		50					
Grounding		DC Ground					

1. Values based on NGMN recommendations on Base Station Antenna Standards (BASTA).
2. Electrical datasheet in XML format is available.

Mechanical Properties	
Antenna dimensions (H x W x D) (mm)	2535 x 259 x 135
Packing dimensions (H x W x D) (mm)	2815 x 305 x 190
Antenna weight (kg)	21
Clamps weight (kg)	3.0 (2 units)
Antenna packing weight (kg)	31.2 (Included clamps)
Mast diameter supported (mm)	50 - 115
Radome material	Fiberglass
Radome colour	Light grey
Operational temperature (℃)	-55 .. +65
Wind load (N)	Frontal: 910 (at 150 km/h) Lateral: 470 (at 150 km/h) Rear side: 1200 (at 150 km/h)
Max. operational wind speed (km/h)	200
Survival wind speed (km/h)	250
Connector	4 x 7/16 DIN Female
Connector position	Bottom

Accessories

Item	Model	Description	Weight	Units per antenna
Downtilt kit	ASMDT0C01	Mechanical downtilt: 0 - 8 °	1.9 kg	1 (Separate packing)

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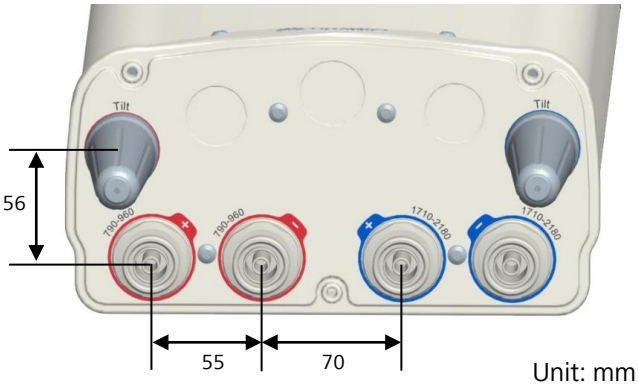
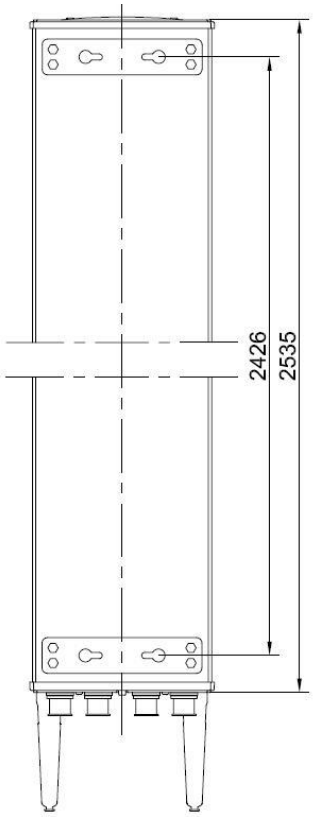
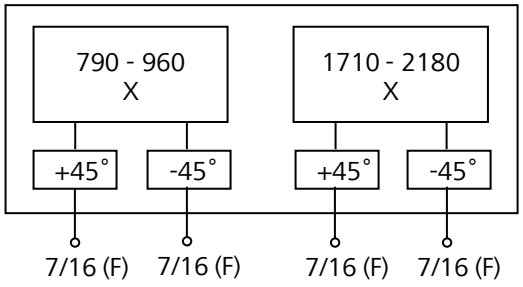
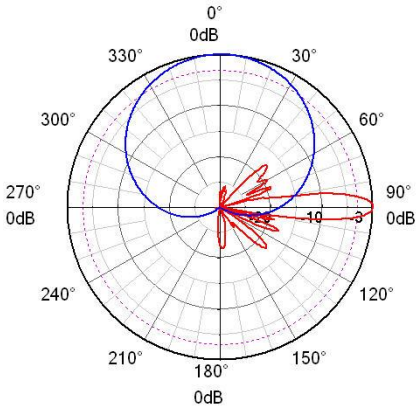


Unit: mm

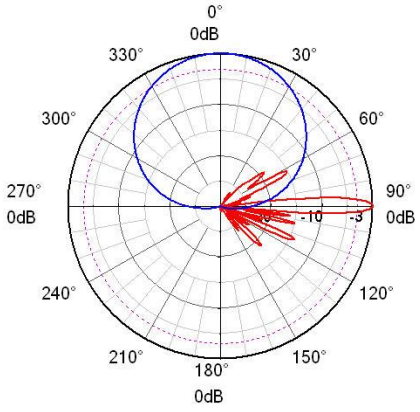




Pattern sample for reference



790 - 960 MHz



1710 - 2180 MHz

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