

TECHNICAL SPECIFICATION

4-port Sector Antenna,
1×690-960&1×1710-2690MHz,65Deg,11&12dBi,0Deg Fixed tilt



A.0	Oct 10th,2025	Robert	Michael	Klaus
Version	Date	Prepared	Reviewed	Approved

Electrical Specifications					
Description	4-port Sector Antenna, 1×690-960&1×1710-2690MHz,65Deg,11&12dBi,0Deg Fixed tilt				
ZTT Product Code	HBZ22P651112				
Frequency Range	MHz	FDD:1×690-960(R1/R2)			
Frequency Band	MHz	690-806	790-862	880-960	
Gain Over All Tilts	dBi	10.5±0.5	10.8±0.5	11.0±0.5	
Gain by Tilt Average Mid	dBi	10.7	11.0	11.2	
Horizontal 3dB Beam Width	Deg	68±6	65±6	63±6	
Vertical 3dB Beam Width	Deg	34±5	32±4	30±3	
1 st Upper Side Lobe Suppression Above Main Beam	dB	>12			
Front to Back Ratio at 180Deg ±30Deg	dB	>21			
Cross Polar Ratio 0Deg	dB	>15			
Electrical Downtilt	Deg	0, Fixed tilt			
VSWR	/	<1.8			
Isolation between Ports	dB	>21			
Intermodulation IM3	dBc	≤-150(2×43 dBm carrier)			
Frequency Range	MHz	FDD:2×1710-2690(Y1/Y2)			
Frequency Band	MHz	1710-1880	1920-2200	2300-2400	2500-2690
Gain Over All Tilts	dBi	11.6±0.6	11.7±0.6	12.2±0.6	12.5±0.6
Gain by Tilt Average Mid	dBi	11.6	11.7	12.3	12.6
Horizontal 3dB Beam Width	Deg	68±7	65±7	62±6	59±6
Vertical 3dB Beam Width	Deg	20±5	19±4	18±5	15±4
Front to Back Ratio at 180Deg ±30Deg	dB	>21			
Cross Polar Ratio 0Deg	dB	>15			
Electrical Downtilt	Deg	0, Fixed tilt			
VSWR	/	<1.8			
Isolation between Ports	dB	>21			
Intermodulation IM3	dBc	≤-150(2×43 dBc carrier)			
Maximum effective power whole antenna.	Watt	240(at 50℃ ambient temperature)			
Mechanical Specifications					

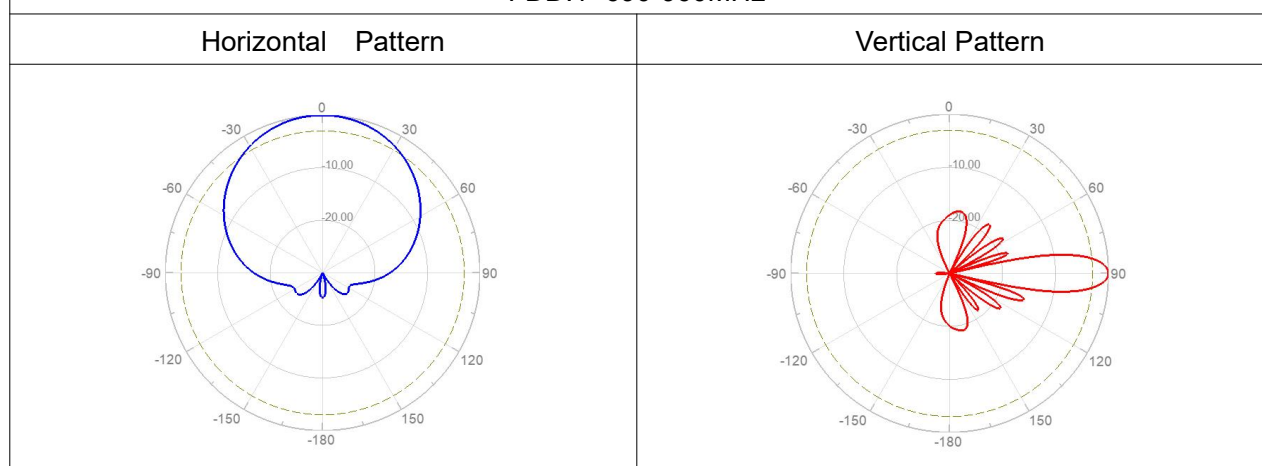
Antenna Dimensions	mm	600×350×165
Antenna Net Weight	kg	6.8
Packing Dimensions	mm	800×450×270
Antenna Gross Weight	kg	17.0
Connector Type	/	4×4.3-10 female
Connector Position	/	Bottom
Radiator Material	/	Aluminum
Radome Material / Color	/	Fiberglass / Light Grey
Reflector Material	/	Aluminum
Storage Temperature	°C	-40 to +60
Operating Temperature	°C	-40 to +60
Humidity	/	5% to 95%
Max. operational Wind Speed	km/h	200
Wind Load @Rated Wind Front	N	268
Wind Load @Rated Wind Side	N	52
Wind Load @Rated Wind Rear	N	301
Lightning Protection	/	DC ground

Accessories

Downtilt Kit (mechanical)	Deg	0-12
Mounting Accessories (clamp)	/	Included with antenna
Mounting Pipe Diameter	mm	50-115

Reference Pattern

FDD:1×690-960MHz



FDD:1×1710-2690MHz

Horizontal Pattern	Vertical Pattern
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Layout of Array

Array	Connector	Frequency(MHz)	RET Serial	
R1	1-2	690-960	ZTR1...01	
Y1	3-4	1710-2690	ZTY1...02	

All data are based on NGMN recommendations on Base Station Antenna Standards (BASTA V12.0).