

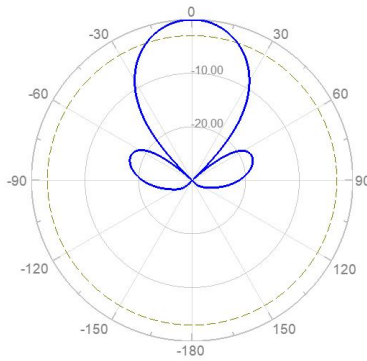
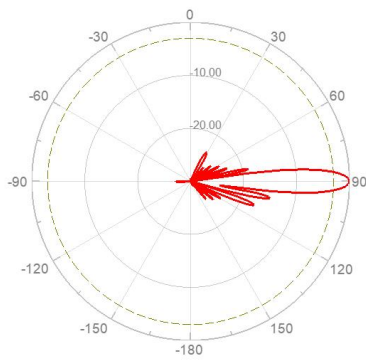
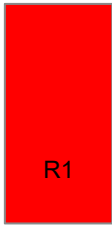
TECHNICAL SPECIFICATION

2-port Sector Antenna, 1×690-960, 33Deg, 20dBi, Integrated RET



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

Electrical Specifications				
Description	2-port Sector Antenna, 1×690-960, 33Deg, 20dBi, Integrated RET			
ZTT Product Code	HBZ2B3320			
Frequency Range	MHz	1×690-960(R1)		
Frequency Band	MHz	690-803	824-894	880-960
Gain Over All Tilts	dBi	18.6±0.5	18.5±0.4	19.0±0.6
Gain by Tilt Average Mid	dBi	18.5	18.7	19.2
Horizontal 3dB Beam Width	Deg	33±3	31±3	29±3
Vertical 3dB Beam Width	Deg	8.4±0.8	7.5±0.6	6.8±0.6
1 st Upper Side Lobe Suppression Above Main Beam	dB	>15		
Front to Back Ratio at 180Deg ±30Deg	dB	>25		
Cross Polar Ratio 0Deg	dB	>15		
Electrical Downtilt	Deg	0-10,Continuously adjustable		
VSWR	/	<1.5		
Isolation between Ports	dB	>26		
Intermodulation IM3	dBc	≤-153(2×43 dBm carrier)		
Max. Effective Power Whole Antenna	Watt	400		
Mechanical Specifications				
Antenna Dimensions	mm	2690×498×197		
Antenna Net Weight	kg	51		
Packing Dimensions	mm	3000×610×315		
Antenna Gross Weight	kg	63		
Connector Type	/	2×4.3-10 Female		
Connector Position	/	Bottom		
Radiator Material	/	Aluminum		
Radome Material / Color	/	Fiberglass / Light Grey RAL7035		
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	1686		

Wind Load @Rated Wind Side	N	279		
Wind Load @Rated Wind Rear	N	1890		
Lightning Protection	/	DC ground		
Accessories				
Downtilt Kit (mechanical)	Deg	0-10		
Mounting Accessories (clamp)	/	Included with antenna		
Mounting Pipe Diameter	mm	50-115		
Internal RET Specifications				
RCU (remote control unit)	/	Replaceable RET (can be exchangable without exchanging antenna)		
		AISG2.0 /3GPP		
Input Voltage Range	V	10-30 DC		
Power Consumption	W	≤2(stand by); ≤13(operating)		
Adjustment Time (full range)	s	< 120 (typically, depending on antenna type)		
RET Connector	/	1 pair of AISG 5 pin male & female		
Pin Assignment According AISG	/	5-pin circular connector conforming to IEC 60130-9 - Ed. 3.0		
Lightning Protection	kA	5 (8/20 μs differential mode), 8 (8/20 μs common mode)		
Reference Pattern				
690-960MHz				
Horizontal Pattern		Vertical Pattern		
				
Layout of Array				
Array	Connector	Frequency(MHz)	RET Serial	
R1	1-2	690-960	ZTR1...01	

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

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