

TECHNICAL SPECIFICATION

6-ports,X-Pol, Panel antenna,
2x698-960MHz&4x1695-2690MHz,65deg,12&15dBi,Integrated RET



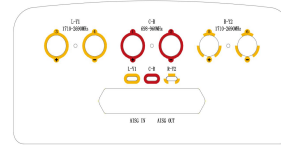
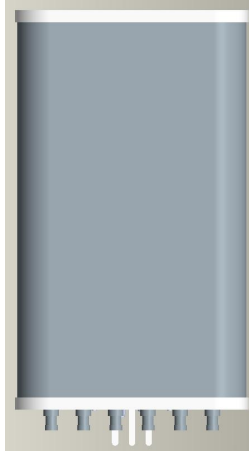
A.0	April 7,2024	Charles	Michael	Mr.Wang
Version	Date	Prepared	Reviewed	Approved

Electrical specifications (BASTA 12.0)					
Description	6 ports,X-Pol, Panel antenna, 2x698-960MHz&4x1695-2690MHz,65deg,12&15dBi,Integrated RET				
ZTT Product Code	BZ24P651215				
Frequency Band	MHz	2x698-960(R1)			
		698-806	824-896	896-960	
Gain	dBi	≥11.0	≥11.5	≥11.5	
Horizontal half-power beam width	Deg	60±5	60±5	60±5	
Vertical half-power beam width	Deg	22±3	22±3	22±3	
Cross Polar Ratio@0deg	dB	≥24			
Side lobe suppression for first side lobe above main beam	dB	≥15			
Isolation between ports	dB	≥20			
Front to Back Ratio@180±30°	dB	≥25			
Electrical Downtilt	Deg	2-10			
VSWR	/	≤1.5			
Intermodulation IM3	dBc	≤-150(2×43 dBm)			
Max. Power Per Port	Watt	≥250			
Impedance	Ohm	50			
Polarization	Deg	±45			
Frequency Band	MHz	4x1695-2690MHz(Y1/Y2)			
		1695-1880	1920-2170	2300-2400	2500-2690
Gain	dBi	≥14.2	≥14.5	≥15.0	≥15.0
Horizontal half-power beam width	Deg	57±7	57±7	57±7	57±7
Vertical half-power beam width	Deg	12±3	12±3	12±3	12±3
Cross Polar Ratio@0deg	dB	≥24			
Side lobe suppression for first side lobe above main beam	dB	≥15			
Isolation between ports	dB	≥20			
Front to Back Ratio@180±30°	dB	≥25			
Electrical Downtilt	Deg	2 to10			

VSWR	/	≤1.5
Intermodulation IM3	dBc	≤-150(2×43 dBm)
Max. Power Per Port	Watt	≥200
Impedance	Ohm	50
Polarization	Deg	±45
Mechanical specifications		
Antenna Dimensions	mm	650×350×165(H×W×D)
Antenna Net Weight	kg	10.5
Bracket Weight	kg	2.8
Packing Dimensions	mm	855×440×250(H×W×D)
Antenna Gross Weight	kg	16.5
Connector type	/	6x7-16 DIN Female
Connector Position	/	Bottom
Radiator Material		Aluminum
Radome Material / Color	/	Fiberglass/Light grey
Reflector Material	/	Aluminum
Storage Temperature	°C	-40 to 70
Operating Temperature	°C	-40 to 70
Humidity	/	95%RH@+30°C
Lightning protection		DC Ground
Max wind velocity	km/h	≥220
Wind Load @Rated Wind Front @150km/h	N	280
Wind Load @Rated Wind Side @150km/h	N	26
Wind Load @Rated Wind Rear @150km/h	N	260
Mounting Pipe Diameter	mm	50-115
Mechanical Tilt	Deg	0-20
Internal RET Specifications		
RCU (Remote Control Unit)	/	Replaceable RET (Can be exchangeable without exchanging Antenna)
		AISG2.0 /3GPP
Input Voltage Range	V	10-30 DC
Power Consumption	W	< 5 (motor activated , single RET) < 1 (stand by, single RET), < 1.5 (stand by, 12V)
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 μ s Differential mode), 8 (8/20 μ s Common mode)

Overall appearance of antenna



Array	Connector	Frequency(MHz)	Sub Unit#	RET Type	RET Serial
R1	R 1-2	698-960	1	MRET	ZTR1...01
Y1	Y 3-4	1710-2690	2	MRET	ZTY1...01
Y2	Y 5-6	1710-2690	2	MRET	ZTY2...01