

HPT-DA-12P-0721-6533R18-E

Base Station Antenna



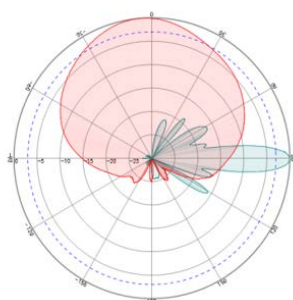
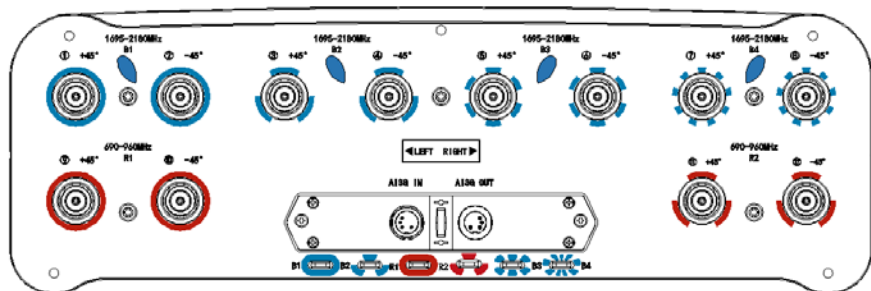
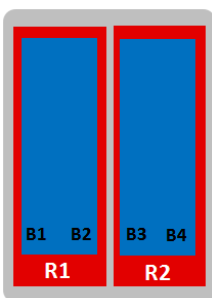
Features:

- 4*694-960/8*1695-2180MHz
- 1695-2180MHz Twin-beam
- 12 x 4.3-10 Female
- Each Band Individually Adjustable

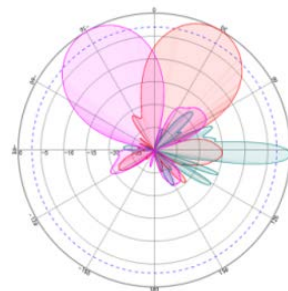
Electrical specifications			
Frequency Range(MHz)	2x694-960 (R1/R2)		
	694-806	790-894	880-960
Gain at mid Tilt(dBi)	14.0	14.4	14.6
Gain over all Tilts(dBi)	13.9±0.5	14.3±0.5	14.5±0.5
Horizontal 3dB Beamwidth(°)	68±6	66±6	64±5
Vertical-3dB Beamwidth (°)	15.5±1	14.3±0.8	13.3±0.6
Front to back Ratio, ±30°(dB)	>25		
Cross-Polar Ratio @0°(dB)	>16		
Cross Polar Discrimination over	>8.0		
First Upper Side Lobe Suppression (dB)	>15		
VSWR	< 1.5		
Polarization(°)	±45		
Interband Isolation (dB)	>25		
Cross-Polar Isolation (dB)	>25		
PIM3 (2x43 dBm carrier) (dBc)	<-153		
Electrical Downtilt (°)	2-10, continuously adjustable		
Max. Average Input Power per Port (W)	300(at 50°C ambient temperature)		
Impedance (Ω)	50		
Lightning Protection	DC Ground		
Electrical specifications			
Frequency Range(MHz)	4x1695-2180 (B1/B2/B3/B4)		
	1695-1990	1920-2180	
Gain at mid Tilt(dBi)	17.5/ 17.8	18/ 18.2	
Gain over all Tilts(dBi)	17.5±0.5/17.8±0.5	18±0.5/ 18.2±0.5	
Horizontal 3dB Beamwidth(o)	36±5	33±5	
Vertical-3dB Beamwidth (o)	15	14	
Horizontal beam direction(°)	±27		
Front to back Ratio, ±30°(dB)	>25		
Cross Polar Discrimination at	>16		
Cross Polar Discrimination over	>8.0		
First Upper Side Lobe Suppression (dB)	>15		
VSWR	< 1.5		
Polarization	±45°		
Interband Isolation (dB)	>25		
Cross-Polar Isolation (dB)	>25		
Beam Isolation (dB)	>17		
PIM3 (2x43 dBm carrier) (dBc)	<-153		
Electrical Downtilt (°)	2-10, continuously adjustable		
Max. Average Input Power per Port (W)	200(at 50°C ambient temperature)		
Impedance (Ω)	50		
Lightning Protection	DC Ground		

Mechanical Specifications	
Connector Type	12 x 4.3-10 female
Connector position	Bottom
Electrical Tilt Control	Integrated RET, Each Band Individually Adjustable
RET with 2 pair in/out	optional
Mechanical Tilt Range	0-10
Radome Material	Fiberglass
Antenna Weight(kg)	28/35(clamps incl)
Bracket Diameter(mm)	50-115
Maximum Wind Speed(km/h)	241
Operating Temperature (°C)	-40 ~+60
Antenna Dimensions (H x W x D) (mm)	1500x650x250
Packing Size (H x W x D) (mm)	1700x720x270

Integrated RET Specifications	
Protocols	Compliant With AISGV2.0 And 3GPP
Supply Voltage, VDC	10-30DC
Power Consumption	<2W (standby); < 10W (motor activated)
Safety Standard	Compliant to EN 60950/UL 60950/ RoHs (Restriction of Hazardous Substances), CE
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, Line to Ground 8/20 us @ 6kA ≥±5 Repetitions Line to line , 8/20 us @ 3kA ≥±5 Repetitions
Connectors	2 x 8 Pins Connector According To IEC60130-9 AND AISG 1 x Daisy Chain In : Male 1 x Daisy Chain Out : Female Pin3:RS485B; Pin5:RS485A; Pin6:10-30V; Pin7: DC return Female connector: 4 PINs ,Male connector: 4 PINs



694-960MHz



1695-2180MHz