

HPT-DA-12P-1721-15R20

Base Station Antenna



Features:

- 12*1695-2180MHz
- Multibeam Antenna 6*15° HPBW
- Each Band Individually Adjustable
- 12 x 4.3-10 Female

Electrical specifications		
Frequency Range(MHz)	1695-2180 (B1/B2/B3/B4/ B5/ B6)	
	1695-1990	1920-2180
Gain at mid Tilt(dBi)	19.5/19.2	20/19.7
Gain over all Tilts(dBi)	19.5±0.5/19.2±0.5	20±0.5/ 19.7±0.5
Horizontal 3dB Beamwidth(°)	15±2	14±2
Vertical-3dB Beamwidth(°)	15	14
Horizontal beam direction(°)	±8、±24、±40	
Front to back Ratio, ±30°(dB)	>25	
Cross Polar Discrimination at Boresight(dB)	>16	
Cross Polar Discrimination over Sector(dB)	>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)	>18	
PIM3 (2x43 dBm carrier) (dBc)	<-153	
Electrical Downtilt (°)	2-12, continuously adjustable	
Max. Average Input Power per Port (W)	250(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)	200
Operating Temperature (°C)	-40 ~+60
Antenna Dimensions (H x W x D) (mm)	1000x980x180
Packing Size (H x W x D) (mm)	1200x1100x320

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

