

Super Antenna System Specification

RF, electrical and mechanical specification per panel and multifoors.

Lobes, Gain and KPI		Dual Beam	
Product number		RIHBP2170A	
Frequency band model	MHz	Mid Band 1710-2170	
Vertical lobe height, H=1 floor	θ_v°	3,1°	
Vertical lobe height, H=2 floor		1,6°	
Vertical lobe height, H=4 floor		0,8°	
Horizontal lobe connected	θ_h°	2 X 42° opt.1 X 42°	
Panels sidewise for hor. lobes	N	1	
Nr of sectors obtained/panel	qty	2	
Nr of ports (<i>regardless</i> of nr of floors)	qty	4	
Radio Units required 2T2R	qty	2	
Gain/input port, L45/R45:			
One floor	dBi	21	
Two floors	dBi	24	
Four floors	dBi	27	
Eight floors	dBi	N/A	
Lobes, Gain and KPI		Single Beam	
Product number		RIHBP2170A	
Frequency band model	MHz	Mid Band 1710-2170	
Vertical lobe height, H=1 floor	θ_v°	3,1°	
Vertical lobe height, H=2 floor		1,6°	
Vertical lobe height, H=4 floor		0,8°	
Horizontal lobe connected	θ_h°	1 X 42°	
Panels sidewise for hor. lobes	N	1	
Nr of sectors obtained/panel	qty	2	
Nr of ports (<i>regardless</i> of nr of floors)	qty	4	
Radio Units required 2T2R	qty	1	
Gain/input port, L45/R45:			
One floor	dBi	22	
Two floors	dBi	25	
Four floors	dBi	28	
Eight floors	dBi	N/A	
F/M1 Gx x RRH ports/panel	x	2 010	
F/M2 Gx x RRH ports/EPA total	x/m2	11 483	
Mechanical Specification			
EPA of Single Panel	m2	1,0	
EPA of Single Panel <i>in Cylinder</i>	m2	0,175	
Height/Width/Depth of Singel Panel	m	2,5/0,36/0,27	
Height/Width/Depth of Two Floors	m	5/0,36/0,27	
Height/Width/Depth of Four Floors	m	10/0,36/0,27	
Height/Width/Depth of Eight Floors	m	N/A	
Weight of Single Panel	kg	36,5	
Weight of Two floors	kg	292 + 13(VLSUs+HLSUs) + 10(brackets) + small acc. = 101	
Weight of Four floors	kg	136 + 18(VLSUs+HLSUs) + 19(brackets) + small acc. = 188	
Weight of Eight floors	kg	N/A	
Mounting		Within +/- 4 mm / 2,5 m < 0,1°. By water gauge 1,5 m long	
Vertical alignment in tower		Within +/- 4 mm / 2,5 m < 0,1°. By water gauge 1,5 m long	
Compatibility	Standards Modulation	5G, 4G, 3G, 2G TDD & FDD	

Note 1: Amplitude and phase grading models. Plus LL-VLSUs + HLSUs + phase cables give System total gain, vertical and horizontal sidelobes performance.