

## Super Antenna System Specification

|  |                    | per Antenna System Specification  |   |
|--|--------------------|---|---|
| Lubra Cala and KBI   | RF, electrical and | mechanical specification per panel and mul  |   |
| Lobes, Gain and KPI Product number                           |                    | Dual  | Beam  |
| Product number   |                    |   |   |
| Frequency band model   | MHz                | Mid Band 1710-2170  | High Band 2300-2690   |
| Vertical lobe height, H=1 floor                              | θv°                | 6,2°  | 5,0°  |
| Vertical lobe height, H=2 floor                              | OV                 | 3,1°  | 2,5°  |
| Vertical lobe height, H=4 floor                              |                    | 1,6°  | 1.2°  |
| Horizontal lobe connected                                    | θh°                | 2 X 42°   | 2 X 38°   |
| Panels sidewise for hor. lobes                               | N I                | 1   | 1   |
| Nr of sectors obtained/panel                                 | qty                | 2   | 2   |
| Nr of ports ( <i>regardless</i> of nr of floor               |                    | 4   | 4   |
| Radio Units required 2T2R                                    | qty                | 2   | 2   |
| Gain/input port, L45/R45:                                    |                    |   |   |
| One floor  | dBi                | 17  | 18  |
| Two floors   | dBi                | 20  | 21  |
| Four floors  | dBi                | 23  | 24  |
| Lobes, Gain and KPI  |                    | Single  | Beam  |
| Product number   |                    |   |   |
|  |                    |   |   |
| Frequency band model   | MHz                | Mid Band 1710-2170  | High Band 2300-2690   |
| Vertical lobe height, H=1 floor                              | θv°                | 6,2°  | 5,0°  |
| Vertical lobe height, H=2 floor                              |                    | 3,1°  | 2,5°  |
| Vertical lobe height, H=4 floor<br>Horizontal lobe connected | θh°                | 1,6°<br><b>1 X 42°</b>  | 1,2°<br><b>1 X 38°</b>  |
| Panels sidewise for hor. lobes                               | N N                | 1 <b>X 42</b> °   | <b>1 X 38°</b><br>1   |
| Nr of sectors obtained/panel                                 | qty                | 2   | 2   |
| Nr of ports ( <i>regardless</i> of nr of floor               |                    | 4   | 4   |
| Radio Units required 2T2R                                    | qty                | 1   | 1   |
| Gain/input port, L45/R45:                                    | 1 40               | ·   | ·   |
| One floor  | dBi                | 18  | 19  |
| Two floors   | dBi                | 21  | 22  |
| Four floors  | dBi                | 24  | 25  |
| Lobes, Gain and KPI  | ubi                |   | Beam  |
| Product number   |                    | <b>(</b>  |   |
|  |                    |   |   |
| Frequency band model   | MHz                | Mid Band 1710-2170  | High Band 2300-2690   |
| Vertical lobe height, H=1 floor                              | θv°                | 6,2°  | 5,0°  |
| Vertical lobe height, H=2 floor                              |                    | 3,1°  | 2,5°  |
| Vertical lobe height, H=4 floor                              |                    | 1,6°  | 1,2°  |
| Horizontal lobe connected                                    | θh°                | 4 X 21°   | 4 X 19°   |
| Panels sidewise for hor. lobes                               | N                  | 1   | 1   |
| Nr of sectors obtained/panel                                 | qty                | 2   | 2   |
| Nr of ports ( <i>regardless</i> of nr of floor               |                    | 4   | 4   |
| Radio Units required 2T2R                                    | qty                | 1   | 1   |
| Gain/input port, L45/R45:<br>One floor                       | de:                | 24  | 22  |
|  | dBi                | 21  |   |
| Two floors   | dBi                | 24  | 25  |
| Four floors  | dBi                | 27  | 28  |
| F/M1 Gx x RRH ports/panel                                    | Х                  | (-504)  |   |
| F/M2 Gx x RRH ports/EPA total                                | x/m2               | (-2878)   |   |
| Mechanical Specification                                     |                    |   |   |
| EPA of Single Panel  | m2                 |   | 1)  |
| EPA of Single Panel <i>in Cylinder</i>                       | m2                 | (-0,175)  |   |
| Height/Width/Depth of Singel Panel                           | m                  |   | 36/0,15   |
| Height/Width/Depth of Two Floors                             | m                  | 2,6/0,36/0,15   |   |
| Height/Width/Depth of Four Floors                            | m                  | 5,2/0,36/0,15   |   |
| Weight of Single Panel                                       | kg                 | 17  |   |
| Weight of Two floors   | kg                 | 34 + 13(VLSUs + HLSUs) + 10(brackets) +cables = 95  |   |
| Weight of Four floors Weight of Eight floors                 | kg                 | 68 + 22(VLSUs + HLSUs) + 19(brackets) + small acc. = 181  |   |
| A VVPIONT OF FIGHT TIMORS                                    | kg                 | 136 + 48,5(VLSUs + HLSUs) + 35(brackets) +small acc. = 369  To mounting platform/floor steel frame w. guided 4-corner arms/jig w. 8- M6 bolts |   |
| 0 0  |                    | To mounting platform/floor stool from   | w guided A-corner armalia w 0 MC halt-  |
| Mounting   |                    | 9.  |   |
|  | Standards          | Within +/- 4 mm / 1,3 m < 0,7   | w. guided 4-corner arms/jig w. 8- M6 bolts  1°. By water gauge 1,5 m long  , 3G, 2G |

Compatibility Modulation TDD & FDD

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