

P6BDEU01

4 Port - 65deg Base Station Sector Antenna

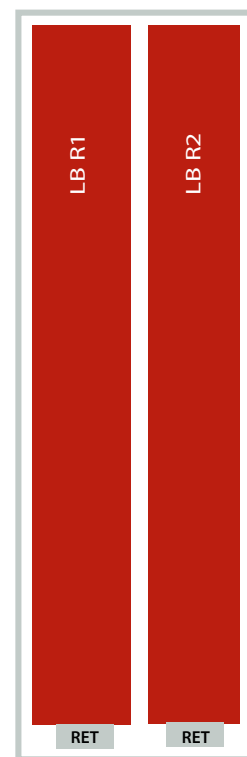
Kaelus Next Generation Base Station Antennas

- Fully integrated Remote Electrical Tilt, AISG compatible
- Supports MIMO: 4x4 on Low Band
- Electrical specifications as per NGMN P-BASTA version 12.0
- Available with integrated SBT

| GENERAL (BASTA) | LB R1/R2 |
|-------------------------------|----------|
| Frequency Range | 694-960 |
| Gain Over All Tilts [dBi] | 15.9 |
| Polarization | X |
| Azimuth Beamwidth [°] | 65 |
| Electrical Downtilt Range [°] | 2-12 |
| Ports Per Band | 4 |

Specifications and Layouts

| MECHANICAL SPECIFICATIONS | |
|--|-------------------------------|
| Antenna Dimensions: Length, Width, Depth [inch mm] | 106.5x18.5x7.0 2705x470x178 |
| Net Weight (Antenna) [lbs kg] | 57.2 22.0 |
| Connector Type, R1,R2 | 4.3-10 Female |
| Connector Quantity, R1,R2 | 4 |
| Connector Position | Bottom |
| Windload, Calculation [mph km/h] | 93.2 150 |
| Windload, Frontal [lbf N] | 210 936 |
| Windload, Lateral [lbf N] | 63 281 |
| Survival Wind Speed [mph km/h] | 124.3 200 |
| Radome Material | ASA |
| Radome Colour [RAL] | 7035 (Light Gray) |
| Product Environmental Compliance | RoHS |
| CC distance between mounting points - Antenna [inch mm] | 103.1 2619 |
| CC distance between mounting points - Bracket [inch mm] | 98.9 2512 |
| Max distance on pole (lowest to highest point) - Bracket [inch mm] | 100.9 2562 |
| Lightning Protection | Yes - DC Ground |



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| ELECTRICAL SPECIFICATIONS (BASTA) | | LB R1/R2 | | |
|--|----------|-----------------|-----------|------------|
| Frequency Range [MHz] | | 703-788 | 814-890 | 890-960 |
| Gain, Average [dBi] | Min Tilt | 16.0 | 16.4 | 16.5 |
| | Mid Tilt | 16.0 | 16.4 | 16.5 |
| | Max Tilt | 15.6 | 14.9 | 15.2 |
| Gain, Over All Tilts [dBi] | | 15.8 ±0.5 | 15.9 ±0.5 | 16.1 ±0.5 |
| Azimuth Beamwidth, -3dB [°] | | 73.3 ±12.2 | 69.3 ±8.2 | 58.7 ±10.6 |
| Azimuth Beamwidth, -10dB [°] | | 139.7 ±22 | 140.2 ±16 | 141.2 ±15 |
| Elevation Beamwidth [°] | | 7.8 ±0.5 | 7.0 ±0.5 | 6.4 ±0.3 |
| Electrical Downtilt [°] | | 2x 2-12 | | |
| Elevation Downtilt Deviation [°] | | 0.5 | 0.5 | 0.5 |
| Front-to-Back Ratio, Total Power, ±30° [dB] | | 22.6 | 23.1 | 20.8 |
| First Upper Side Lobe Suppression [dB] | | 15.4 | 13.7 | 16.9 |
| Upper Side Lobe Suppression [dB] | | 14.1 | 10.7 | 10.1 |
| Polarization [°] | | ±45 | | |
| Impedance [Ω] | | 50 | | |
| VSWR | | < 1.5:1 | | |
| Return Loss [dB] | | > 14.0 | | |
| Cross Polar Isolation [dB] | | 25 (Typical 28) | | |
| Interband Isolation [dB] | | 25 | | |
| Passive Intermodulation (PIM) 3rd order, 2x20W [dBc] | | < -153 | | |
| Maximum Effective Power Per Port [W] | | 250 | | |

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| REMOTE ELECTRICAL TILT (RET) INFORMATION | |
|--|---------------------------|
| Type | Integrated, Non-Removable |
| Power Input | 10 - 30V DC |
| Protocol | 3GPP/AISG2.0 |
| RET Interface | 8-Pin DIN |
| RET Interface (Quantity) | 2 (1 Male + 1 Female) |

| PRODUCT VARIANT | |
|-----------------------------------|-------------|
| Single RET Firmware Configuration | P6BDEU01-V1 |
| Single RET Firmware, SBT on R1 | P6BDEU01-V3 |

| ASIG CONFIGURATION | | | | | |
|--------------------|-----------|--------------|-----|-----|----------------|
| Array ID | Frequency | RF Connector | HBW | RET | RET Unique ID |
| R1 | 694-960 | 1-2 | 65 | 1 | KSXXXXXXXXXXR1 |
| R2 | 694-960 | 3-4 | 65 | 2 | KSXXXXXXXXXXR2 |

| SHIPPING AND ORDER INFORMATION | | |
|--|--------------------------------|----------------|
| Packing Size: Length, Width, Depth [inch mm] | 114.2x23.6x11.8 2900x600x300 | |
| Fixed Bracket: Shipping Weight [lbs kg], P/N | 73 33.0 | P6BDEU01-Vx-P2 |
| Tilt Bracket: Shipping Weight [lbs kg], P/N | 77 35.0 | P6BDEU01-Vx-P3 |

| ENVIRONMENTAL COMPLIANCE | |
|--|------------|
| ETSI EN300019-1-1 for Storage | Class 1.2 |
| ETSI EN300019-1-2 for Transportation | Class 2.3 |
| ETSI EN300019-1-4 for Environmental Condi- | Class 4.1E |
| Cold Temperature Survival [°F °C] | -40 -40 |
| Hot Temperature Survival [°F °C] | 140 60 |

Network planning files and datasheet in NGMN XML formats are available on request by email.

Kaelus follows the definitions and recommendations per NGMN P-Basta version 12.0 (www.ngmn.org) within parameters shown on this datasheet.

All specifications are subject to change without notice. Visit www.kaelus.com for the most current data sheets.

