

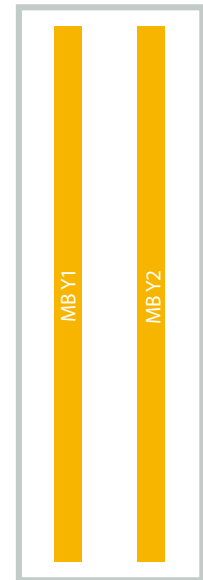
M0MDBF01

4-Port, 360 Degree, Small Cell Canister Antenna

Kaelus Next Generation Base Station Antennas

- Innovative slotted disc antenna technology
- Electrical specifications as per NGMN P-BASTA version 12.0

| GENERAL (BASTA) | MB Y1/Y2 |
|---------------------------|-----------|
| Frequency Range [MHz] | 1695-2690 |
| Gain Over All Tilts [dBi] | 12.0 |
| Polarization | X |
| Azimuth Beamwidth [°] | 360 |
| Electrical Downtilt [°] | 2 |
| Ports | 4 |



Specifications and Layouts

| MECHANICAL SPECIFICATIONS | |
|--|---------------------|
| Antenna Dimensions: Length, Diameter [inch mm] | 25.2x10.0 640x254 |
| Net Weight (Antenna) [lbs kg] | 17.6 8.0 |
| Connector Type | 4.3-10 female |
| Connector Quantity | 4 |
| Connector Position | Bottom |
| Windload, Calculation* [mph km/h] | 93.2 150 |
| Windload, Maximum [lbfN] | 19.1 85 |
| Survival Wind Speed [mph km/h] | 124.3 200 |
| Radome Material | ASA |
| Radome Color [RAL] | 7035 (light gray) |
| Product Environmental Compliance | RoHS |
| Lightning Protection | Yes - DC Ground |

* According to EN 1991-1-4:2005+A 1:2010



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4-Port, 360 Degree, Small Cell Canister Antenna

| ELECTRICAL SPECIFICATIONS (BASTA) | MB Y1/Y2 | | | | |
|--|--------------|-----------|-----------|-----------|-----------|
| Frequency Range [MHz] | 1695-1880 | 1920-1990 | 2110-2170 | 2300-2400 | 2496-2690 |
| Gain, average [dBi] | 11.0 | 11.5 | 11.8 | 12.3 | 12.8 |
| Azimuth Beamwidth [°] | 360 (pseudo) | | | | |
| Elevation Beamwidth [°] | 12.5 ±4.0 | | | | |
| Electrical Downtilt [°] | 2 | 2 | 2 | 2 | 2 |
| Elevation Downtilt Deviation [°] | 1 | 1 | 1 | 1 | 1 |
| First Upper Side Lobe Suppression [dB] | 17 | 17 | 17 | 17 | 17 |
| Upper Side Lobe Suppression [dB] | 15 | 15 | 15 | 15 | 15 |
| Polarization [°] | ±45 | | | | |
| Impedance [Ω] | 50 | | | | |
| VSWR | < 1.5:1 | | | | |
| Return Loss [dB] | < -14.0 | | | | |
| Cross Polar Isolation [dB] | 25 | | | | |
| Interband Isolation [dB] | 25 | | | | |
| Passive Intermodulation (PIM) 3rd order, 2x20W [dBc] | < -153 | | | | |
| Maximum Effective Power Per Port [W] | 100 | | | | |

| SHIPPING AND ORDER INFORMATION | | |
|--|------------------------|----------------|
| Packing Size: Length, Width, Depth [inch mm] | 34x18x18 864x458x458 | |
| Shipping Weight [lbs kg] | 26.5 12.0 | M0MDBF01-V1-P1 |

| 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 Conditions | Class 4.1E |
| Cold Temperature Survival [°F °C] | -40 -40 |
| Hot Temperature Survival [°F °C] | 140 60 |

| ADDITIONAL ACCESSORIES (AVAILABLE TO ORDER) | |
|---|--------------|
| Side Pole/Wall Mount Kit (incl. cover) | KIT-000039-P |
| Top Pole Mount Kit [2.4-6.3 inch 60-160mm] (incl. cover) | KIT-000040-P |
| Top Pole Mount Kit [5.5-8.7 inch 140-220mm] (incl. cover) | KIT-000041-P |



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.

