

# M0FEBF02

14-Port, 360 Degree, Quasi Omni Antenna for Small Cells

## Kaelus Next Generation Base Station Antennas

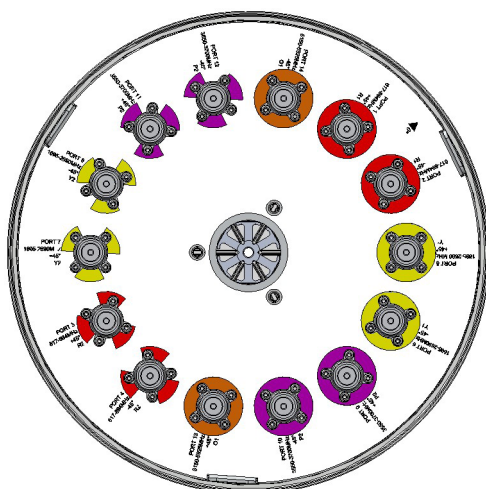
- Innovative Slotted Disc Antenna Technology
- Super compact size
- 0 Deg FET on Low band, 2 Deg FET on all other bands.
- Supports MIMO: 4x4 on Low Band, Mid Band and CBRS. 2x2 on LAA

GENERAL	LB R1/R2	MB Y1/Y2	HB P1/P2	LAA O1
Frequency Range [MHz]	617-896	1695-2690	3300-4200	5150-5925
Gain [dBi]	2.9	8.5	8.8	5.5
Polarization [°]	±45	±45	±45	±45
Azimuth Beamwidth [°]	360	360	360	360
Electrical Downtilt [°]	0	2	2	2
Ports Per Band	4	4	4	2

## Specifications and Layouts

MECHANICAL SPECIFICATIONS	
Antenna Dimensions: Length, Diameter [in]	29 x 14
Net Weight (Antenna) [lb]	19.5
Connector Type	4.3-10 Female
Connector Quantity	14
Connector Position	Bottom
Windload, Calculation* [mph]	93.2
Survival Wind Speed [mph]	150
Radome Material	ASA
Radome Color [RAL]	7035
Product Environmental Compliance	RoHS
Lightning Protection	DC Ground

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



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ELECTRICAL SPECIFICATIONS	LB R1/R2		MB Y1/Y2					HB P1/P2	LAA O1
Frequency Range [MHz]	617-806	824-896	1695-1780	1850-1995	2095-2200	2300-2400	2496-2690	3300-4200	5150-5925
Gain, Peak [dBi]	2.8	3.0	7.2	7.9	8.3	8.6	9.1	8.4	5.5
Gain, Average [dBi]	1.8	2.0	6.5	7.2	7.6	7.9	8.4	8.0	5.0
Azimuth Beamwidth [°]	360		360					360	360
Elevation Beamwidth [°]	87.0	83.0	27.0	26.1	24.1	22.6	20.7	19.0	25.5
Electrical Downtilt [°]	0		2					2	2
First Upper Side Lobe Suppression [dB]	N/A	N/A	17	17	17	17	17	16	15
Polarization [°]	±45		±45					±45	±45
Impedance [Ω]	50		50					50	50
VSWR	< 1.5:1		< 1.5:1					< 1.5:1	< 1.5:1
Return Loss [dB]	< -14.0		< -14.0					< -14.0	< -14.0
Cross Polar Isolation [dB]	>25		>25					>25	>25
Interband Isolation [dB]	>25		>25					>25	>25
Passive Intermodulation [dBc]	< -153		< -153					< -150	N/A
Maximum Effective Power Per Port [W]	50		100					50	10

SHIPPING AND ORDER INFORMATION	
Packing Size: Length, Width, Depth [in]	40 x 22 x 22
Shipping Weight [lb]	30 M0FEBF02-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]	-40
Hot Temperature Survival [°F]	140

ADDITIONAL ACCESSORIES (AVAILABLE TO ORDER)	
Side Pole/Wall Mount Kit	TBD
Top Pole Mount Kit [2.4-6.3 in]	TBD
Top Pole Mount Kit [5.5-8.7 in]	TBD

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 10.0 ([www.ngmn.org](http://www.ngmn.org)) within parameters shown on this datasheet.

All specifications are subject to change without notice. Visit [www.kaelus.com](http://www.kaelus.com) for the most current data sheets.

