

M0OSSU02

4-Port, 360°, Canister Antenna

Kaelus Next Generation Base Station Antennas

- Ultra compact design with excellent pattern performance
- Upgrade existing 2x2 sites to 4x4 with same form factor
- Electrical specifications as per NGMN P-Basta version 11.1

GENERAL (BASTA)	MB Y1/Y2
Frequency Range	1695-2690
Gain Over All Tilts [dBi]	13.5
Polarization	X
Azimuth Beamwidth [°]	Quasi-omni
Electrical Downtilt [°]	2-12
Number of Ports	4

Specifications Antenna

MECHANICAL SPECIFICATIONS ANTENNA	
Antenna Dimensions: Length, Diameter [in mm]	45 x 10 1140 x 254
Net Weight (Antenna) [lb kg]	31 14
Connector Type	4.3-10
Connector Quantity	4
Connector Position	Bottom
Windload, Calculation* [mph km/h]	93.2 150
Windload, Maximum [lb N]	34 151
Survival Wind Speed [mph km/h]	150 240
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

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)

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

SHIPPING AND ORDER INFORMATION	
Product Number	M0OSSU02-V1-P2
Packing Size: Length, Width, Depth [in mm]	54.3x15.4x15.4 1380x390x390
Shipping Weight [lb kg]	48 22



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Specifications Antenna

ELECTRICAL SPECIFICATIONS ANTENNA (BASTA)	MB Y1/Y2				
Frequency Range [MHz]	1695-1880	1900-2025	2095-2200	2300-2500	2500-2690
Gain, Average [dBi]	12.5	12.8	12.8	13.5	14.4
Half Power Beamwidth [°] (Horizontal)	Quasi-omni				
Half Power Beamwidth [°] (Vertical)	8.9±1	7.9±1	7.5±1	6.8±1	6.1±1
Electrical Downtilt [°]	2-12				
Elevation Downtilt Deviation [°]	±0.5	±0.5	±0.5	±0.5	±0.5
First Upper Side Lobe Suppression [dB]	15	15	15	15	15
Upper Side Lobe Suppression [dB]	13	13	13	13	13
Polarization [°]	±45				
Impedance [Ω]	50				
VSWR	< 1.5:1				
Return Loss [dB]	> 14.0				
Cross Polar Isolation [dB]	30				
Passive Intermodulation (PIM) 3rd order, 2x20W [dBc]	< -153				
Maximum Effective Power Per Port [W]	250				



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 11.1 (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.

