P6ODMU01

4-Port, 65 Degree, Base Station Sector Antenna

Kaelus Next Generation Base Station Antennas

- High gain over an extended tilt range
- Fully integrated Remote Electrical Tilt, AISG compatible
- Supports MIMO: 4x4 on Mid Band
- Electrical specifications as per NGMN P-BASTA version 12.0

GENERAL	MB Y1/Y2
Frequency Range	1695-2690
Gain Over All Tilts [dBi]	18.7
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]	71.7x11.8x5.7 | 1820x300x146
Net Weight (Antenna) [lbs|kg]	46 | 21
Connector Type	4.3-10 Female
Connector Quantity	4
Connector Position	Bottom
Windload, Calculation [mph|km/h]	150 | 241
Windload, Frontal [lbf|N]	93 | 414
Windload, Lateral [lbf|N]	37 | 164
Survival Wind Speed [mph|km/h]	150 | 241
Radome Material	GRP
Radome Color [RAL]	7035 (Light Gray)
Product Environmental Compliance	RoHS
Lightning Protection	Yes - DC Ground

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ELECTRICAL SPECIFICATIONS		MB Y1/Y2			
Frequency Range [MHz]		1695-1880	1850-1990	1920-2200	2496-2690
Gain, Average [dBi]	Min Tilt	18.1	18.4	18.7	19.5
	Mid Tilt	18.3	18.6	18.8	19.6
	Max Tilt	17.9	18.5	18.6	19.4
Gain, Over All Tilts [dBi]		18.1 ±0.5	18.4 ±0.5	18.7 ±0.5	19.5 ±0.5
Azimuth Beamwidth [º]		66.2 ±3.9	65.8 ±4.1	64.5 ±2.5	52.5 ±6.1
Elevation Beamwidth [º]		5.9 ±0.5	5.5 ±0.3	5.3 ±0.4	4.1 ±0.3
Electrical Downtilt [º]		2x 2-12			
Elevation Downtilt Deviation [º]		0.5	0.5	0.5	0.5
Front-to-Back Ratio, Total Power, ±30º [dB]		23	23	23	23
Front-to-Back Ratio at 180º Copolar [dB]		30	34	36	36
First Upper Side Lobe Suppression [dB]		21	21	19	19
Upper Side Lobe Suppression [dB]		19	19	18	18
Cross Polar Over Sector [dB]		14	14	14	12
Cross Polar Discrimination at Boresight [dB]		29	28	24	23
Polarization [º]		±45			
Impedance [Ω]		50			
VSWR		< 1.5:1			
Return Loss [dB]		> 14.0			
Cross Polar Isolation [dB]		30			
Passive Intermodulation (PIM) 3rd order, 2x40W [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 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.

Revised: 25 February 2026

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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	P6ODMU01-V1

SHIPPING AND ORDER INFORMATION		
Packing Size: Length, Width, Depth [inch|mm]	81.5x16.1x10.1 | 2070x410x256	
Tilt Bracket: Shipping Weight [lbs|kg], P/N	57.2 | 26.0	P6ODMU01-V1-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 Conditions	Class 4.1E
Cold Temperature Survival [ºF|ºC]	-40 | -40
Hot Temperature Survival [ºF|ºC]	140 | 60