

EOO16X65V12D6

Multi band Multi ports Antenna with internal replaceable RET

3XPol / 1x 698-960, 2x 1710-2690 MHz / H65°, H65° / 16, 18 dBi / 1.5°-12°, 2°-12°

Multi-band Panel	R1	Y1	Y2
Frequency Range	698-960	1710-2690	1710-2690
HPBW	65°	65°	65°

Model No.	EOO16X65V12D6			
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Connectors	R1 Connector 1-2			
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		698-960			
Frequency Range (MHz)		698-806	790-862	824-894	880-960
Gain at mid Tilt (dBi)		15.3	15.7	15.8	15.9

Horizontal Pattern:					
Azimuth Beamwidth (°)		69	67	67	66
Front-to-Back Ratio (dB)		> 25	> 26	> 25	> 25
Cross Polar Discrimination at Boresight (dB)		> 19	> 19	> 20	> 18
Cross Polar Discrimination over Sector (dB)		> 10	> 9	> 9	> 8

Vertical Pattern:					
Elevation Beamwidth (°)		11.5	10.5	10.3	10.0
Electrical Downtilt continuously adjustable (°)				1.5 - 12	
Tilt Accuracy (°)		< 0.5	< 0.5	< 0.5	< 0.6
First Upper Side Lobe Suppression (dB)		> 16	> 16	> 16	> 16

Cross Polar Isolation (dB)				> 28	
Inter band isolation (dB)				> 30	
VSWR				< 1.5	
Polarization				+45°, -45°	
Intermodulation IM3 (dBc)				< -150 (2x43 dBm carrier)	
Impedance (Ω)				50	
Max. Effective Power per Port				250	

Values based on NGMN-P-BASTA requirements

Connectors	Y1-Y2, Connector 3-6					
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		1710-2690				
Frequency Range (MHz)		1710-1880	1850-1990	1920-2170	2300-2400	2500-2690
Gain at mid Tilt (dBi)		17.1	17.2	17.6	17.9	17.6

Horizontal Pattern:						
Azimuth Beamwidth (°)		67	65	63	61	63
Front-to-Back Ratio (dB)		> 25	> 25	> 25	> 25	> 25
Cross Polar Discrimination at Boresight (dB)		> 20	> 24	> 25	> 23	> 19
Cross Polar Discrimination over Sector (dB)		> 12	> 10	> 10	> 8	> 8

Vertical Pattern:						
Elevation Beamwidth (°)		7.1	6.4	6.1	5.4	4.8
Electrical Downtilt continuously adjustable (°)				2-12		
Tilt Accuracy (°)		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
First Upper Side Lobe Suppression (dB)		> 16	> 16	> 16	> 16	> 16

Cross Polar Isolation (dB)				> 28	
Inter band isolation (dB)				> 30	
VSWR				< 1.5	
Polarization				+45°, -45°	
Intermodulation IM3 (dBc)				< -150 (2x43 dBm carrier)	
Impedance (Ω)				50	
Max. Effective Power per Port				250 W	

Values based on NGMN-P-BASTA requirements

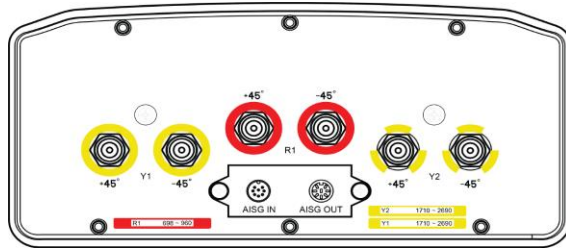
Mechanical Specifications

Connector Type & Quantity		6 x 7-16 DIN Female or 4.3-10 DIN Female
Connector Position		Bottom
Dimension (H x W x D)	(mm/in)	2000 x 350 x 160 78.7 x 13.7 x 6.2
Weight	(kg/lb)	28 62
Wind Load (@100 mph)	(N)	Front 1344, Side 615, Rear 1344
Max. Wind Speed	(mph)	150
Operation temperature	(°)	- 40 ~ 70
Radome (Color)		ASA+PC (Gray)
Product Environmental compliance		ROHS compliant

Remote Electrical Tilt (RET)

Internal RET Protocol		ACS-RP100 (Internal Replaceable RET) 3GPP/AISG 2.0
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Bottom view



R1	698-960 MHz
Y1, Y2	1710-2690 MHz

Mechanical Drawing & Configuration Table

