

# E000016X65V12D10

Penta Band Antenna with internal replaceable RET

5XPol / 1x 698-960, 4 x 1710-2690 MHz / H65°, H65° / 16 dBi , 4 x 17 dBi / 1.5°-12°, 2°-12°

Multi-band Panel	R1	Y1	Y2	Y3	Y4
Frequency Range	698-960	1710-2690	1710-2690	1710-2690	1710-2690
HPBW	65°	65°	65°	65°	65°

<b>Model No.</b>	<b>E000016X65V12D10</b>				
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<b>Connectors</b>		<b>R1 Connector 1-2</b>			
		<b>698-862</b>		<b>880-960</b>	
Frequency Range (MHz)		698-806	790-862	880-960	
Gain at mid Tilt (dBi)		15.3	15.7	15.9	

<b>Horizontal Pattern:</b>		698-862		880-960	
Azimuth Beamwidth (°)		69	67	66	
Front-to-Back Ratio (dB)		> 25	> 25	> 25	
Cross Polar Discrimination at Boresight (dB)		> 19	> 20	> 18	
Cross Polar Discrimination over Sector (dB)		> 10	> 9	> 8	

<b>Vertical Pattern:</b>		698-862		880-960	
Elevation Beamwidth (°)		11.5	10.5	10.0	
Electrical Downtilt continuously adjustable (°)				1.5 -12	
Tilt Accuracy (°)		< 0.5	< 0.5	< 0.6	
First Upper Side Lobe Suppression (dB)		> 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

<b>Connectors</b>		<b>Y1-Y4 ,Connector 3-10</b>				
		<b>1710-2690</b>				
Frequency Range (MHz)		1710-1880	1850-1990	1920-2170	2300-2400	2500-2690
Gain at mid Tilt (dBi)		15.7	16.1	16.3	16.4	16.0

<b>Horizontal Pattern:</b>		1710-1880		1850-1990		1920-2170		2300-2400		2500-2690	
Azimuth Beamwidth (°)		67	65	63	61	63		63		63	
Front-to-Back Ratio (dB)		> 25	> 25	> 25	> 25	> 25		> 25		> 25	
Cross Polar Discrimination at Boresight (dB)		> 20	> 24	> 25	> 23	> 19		> 19		> 19	
Cross Polar Discrimination over Sector (dB)		> 12	> 10	> 10	> 8	> 8		> 8		> 8	

<b>Vertical Pattern:</b>		1710-1880		1850-1990		1920-2170		2300-2400		2500-2690	
Elevation Beamwidth (°)		10.5	10.0	9.3	8.5	8.0		8.0		8.0	
Electrical Downtilt continuously adjustable (°)		2-12	2-12	2-12	2-12	2-12		2-12		2-12	
Tilt Accuracy (°)		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3		< 0.3	
First Upper Side Lobe Suppression (dB)		> 16	> 16	> 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

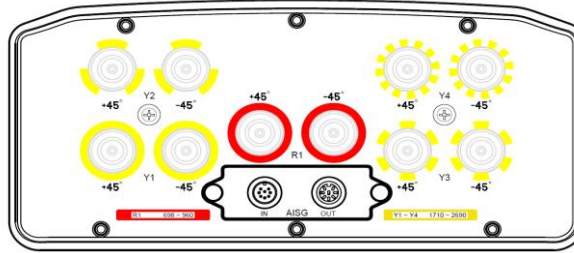
**Mechanical Specifications**

Connector Type & Quantity		10 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)	35   77
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**



<b>R1</b>	698-960 MHz
<b>Y1, Y2, Y3, Y4</b>	1710-2690 MHz

**Mechanical Drawing & Configuration Table**

