QD6612-3D

6ft 65º XXXXXX MultiServ™ 12-Port Antenna

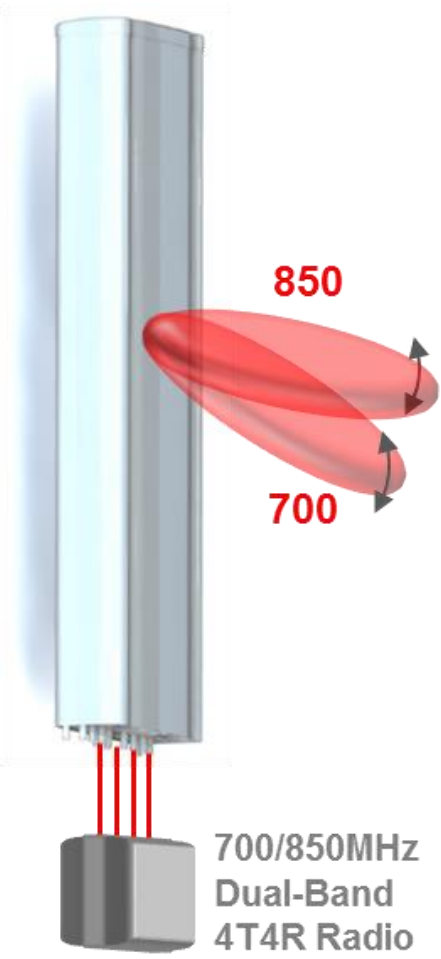
4x698-806 & 824-894MHz /8x1695-2400MHz

- Independent Tilts at 700 & 850MHz on 4T4R Dual-Band Radios
- Optimized Azimuth patterns for Min Inter-Sector Interference
- Industry leading Minimal Wind-Load Radome design

- Enhances coverage when setback >30 feet from rooftop edge
- Full length Low & Mid-band Arrays for optimal VBW & Gain
- Minimizes coupling to close-in external PIM sources

Electrical Characteristics	4x Ports 1 2 3 4		8x Ports 5 6 7 8 & 9 10 11 12			
Polarization	2x ±45º		4x ±45º			
Operating Frequency (MHz)	698-806 & 824-894		1695-2400			
	698-806	824-894	1695-1880	1850-1990	2110-2180	2300-2400
Gain (dBi)	14.5	14.8	16.7	17.2	17.7	18.4
Azimuth beamwidth[1]	69±8.0º	63±3.0º	71±5.8º	68±4.2º	64±3.8º	61±4.0º
Electrical down-tilt range	2º-14º	2º-14º	4x 0º–9º			
Elevation beamwidth[1]	11.8±0.9º	10.2±0.8º	7.0±0.4º	6.5±0.4º	5.7±0.2º	5.1±0.2º
BASTA Gain (dBi)	14.1±0.6	14.4±0.7	16.3±0.6	16.9±0.5	17.4±0.6	18.2±0.4
Min Tilt	14.3	14.7	16.3	16.9	17.3	18.1
Mid Tilt	14.2	14.5	16.4	17.0	17.4	18.3
Max Tilt	13.7	13.8	16.3	16.8	17.3	18.1
USLS 20º>mainbeam (dB)	11.7	11.4	11.3	12.4	15.5	14.7
FTB at 180º±30º (dB)[1]	25.9	26.6	28.6	26.1	30.9	28.9
Isolation Port-to-Port (dB)	36	34	37	37	37	40
Return loss/VSWR (dB)	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5
X Polar at 0º (dB)[1]	15.4	15.6	19.6	19.3	19.9	21.9
Max Power handling (port)	300 Watts		250 Watts			
Max Power (all ports)	1100 Watts					
PIM (dBc: 2x43dBm)	>153		>153			

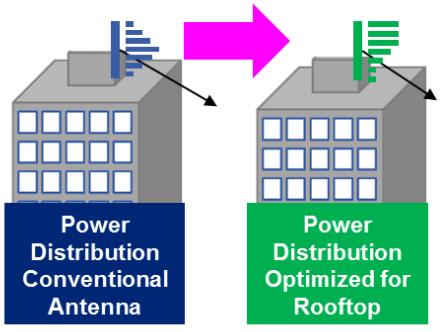
[1] *BASTA*

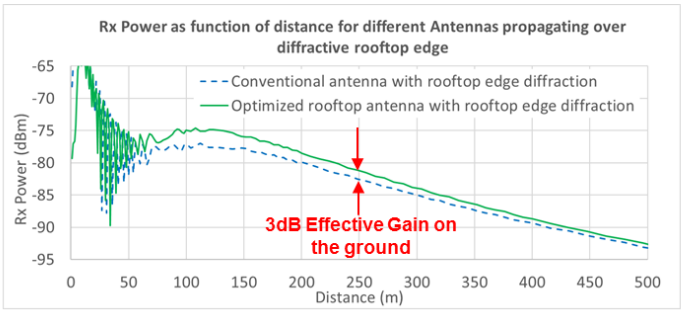


Mechanical Characteristics	
Dimensions	L 72”(1828mm) x W 22”(558mm) x D 9.6”(245mm)
Weight (excl mounting brackets)	118lbs (53.6kg)
No. of Connectors	12x 4.3-10.0 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Equivalent Projected Area[2]	Front: 9.5ft² (0.89m²) Side: 3.1ft² (0.28m²)
Wind Load[2] @161km/h (45m/s)	Front: 243lbs (1081N), Side: 78lbs (348N)
Operating Temperature	-40°C to +65°C

[2] *Equivalent Projected Area and Wind Load derived from simulation measurements. Equivalent Projected Area assumed C_d=1*

Maximizes Signal Power on the ground when antennas have to be set-back on Rooftops





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Fully Integrated RET Characteristics

Protocol	V 1.1/2.0/3GPP (SRET Type 1)
Surge immunity	IEC 61000-4-5:2005 4KV(AISG PIN)
AISG Data rate	9.6 kbps
RET Connectors	1x 8-Pin DIN Female & 1x 8-Pin DIN Male