

QD8612-3D 8ft 65° XXXXXX MultiServ™ 12-Port Antenna

MultiServ.



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

- Full length Low & Mid-band Arrays for optimal VBW & Gain
- Best in class Quality and Internal PIM performance
- Designed to minimize External PIM

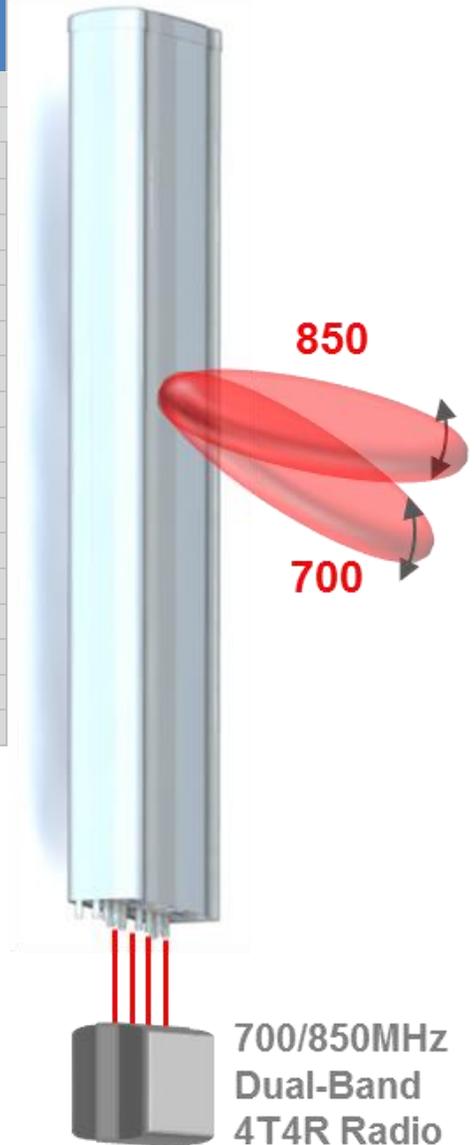
Electrical Characteristics	4x Ports 1 2 3 4		8x Ports 5 6 7 8 & 9 10 11 12				
	698-806 & 824-894		1695-2400				
Polarization	2x ±45°		4x ±45°				
Operating Frequency (MHz)	698-806	824-894	1695-1880	1850-1990	2110-2180	2300-2400	
Gain (dBi)	15.2	15.5	17.0	17.2	17.5	18.4	
Azimuth beamwidth ¹	69±5.6°	63±3.2°	63±5.5°	62±5.9°	62±4.1°	58±4.3°	
Electrical down-tilt range	2°-12°	2°-12°	4x 0°-9°				
Elevation beamwidth ¹	9.3±0.5°	8.4±0.7°	6.8±0.6°	6.2±0.4°	5.5±0.3°	5.1±0.3°	
BASTA Gain (dBi)	14.9±0.4	15.1±0.6	16.5±0.6	16.9±0.4	17.1±0.5	18.0±0.8	
	Min Tilt	14.9	15.0	16.6	17.0	17.1	17.9
	Mid Tilt	15.0	15.2	16.6	17.0	17.2	18.1
	Max Tilt	14.7	14.9	16.4	16.7	16.9	17.8
USLS 20°>mainbeam (dB)	12.0	12.0	11.8	12.2	13.8	15.0	
FTB at 180°±30° (dB) ¹	29.2	28.7	28.1	29.0	30.7	30.6	
Isolation Port-to-Port (dB)	36	38	36	38	36	38	
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 0° (dB) ¹	15.6	15.2	19.7	16.5	18.6	20.3	
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 96"(2438mm) x W 22"(558mm) x D 9.6"(245mm)
Weight (excl mounting brackets)	137lbs (62.3kg)
No. of Connectors	12x 4.3-10.0 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Equivalent Projected Area ²	Front: 13.3ft ² (1.24m ²) Side: 4.2ft ² (0.39m ²)
Wind Load ² @161km/h (45m/s)	Front: 339lbs (1508N), Side: 107lbs (476N)
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



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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