Quintel®
New Dimensions in Wireless™

QD66512-2R

6ft 65° 2L4H Rooftop Optimized 12-Port Antenna

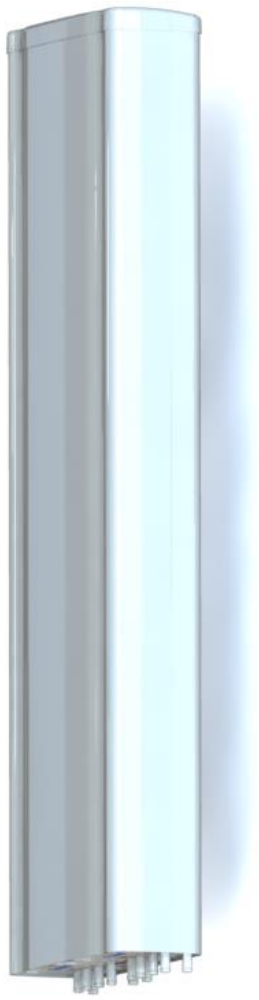
4x698-894MHz / 8x1695-2400MHz

MultiServ.

- Optimized for Rooftop Deployments when set back from edge
- Optimized Azimuth patterns for Min Inter-Sector Interference
- Industry leading Minimal Wind-Load Radome design
- Full length High-band Arrays for optimal VBW and 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			
Operating Frequency (MHz)	698-894		1695-2400			
	698-803	824-894	1695-1780	1850-1990	2110-2180	2300-2400
Peak Gain	15.1	15.4	17.1	17.8	18.0	19.1
Azimuth beamwidth[1]	67°	61°	70°	66°	63°	55°
Elevation beamwidth[1]	12.3°	10.6°	6.4°	5.8°	5.2°	4.7°
Gain[1] (dBi)	14.3	14.6	16.4	17.0	17.3	18.3
Polarization	2x ±45°		4x ±45°			
Electrical down-tilt range	2°-14°		4x 1°–9°			
USLS 20°>mainbeam (dB)	>15	>15	>17	>19	>17	>16
FTB at 180°±10° (dB)[1]	29	32	34	36	38	41
Port to Port isolation[1]	27	29	29	32	30	32
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)	15	15	18	19	19	22
Max Power handling (port)	300 Watts		250 Watts			
Max Power (all ports)	1100 Watts					
PIM (dBc: 2x43dBm)	>153		>153			

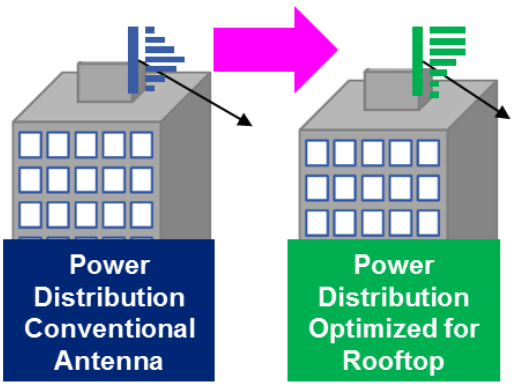
[1] Typical Performance across ports, frequencies and Downtilt.

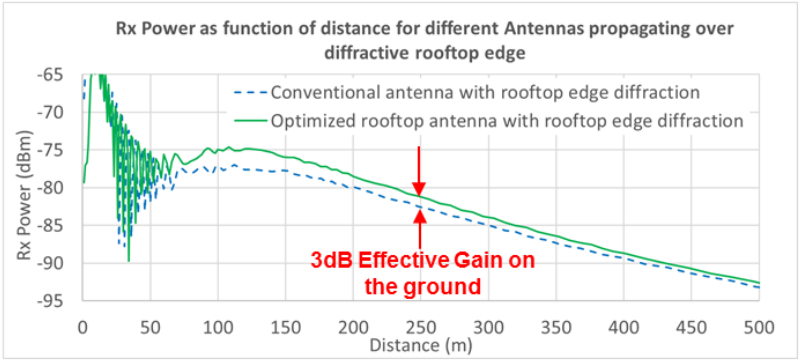


Mechanical Characteristics	
Dimensions	L 72”(1828mm) x W 22”(558mm) x D 9.6”(245mm)
Weight (excl mounting brackets)	110lbs (50.0kg)
No. of Connectors	12x 4.3-10.0 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Equivalent Projected Area[2]	Front: 2.8ft² (0.26m²) Side: 1.0ft² (0.093m²)
Wind Load[2] @161km/h (45m/s)	Front: 160lbs (712N), Side: 69lbs (307N)
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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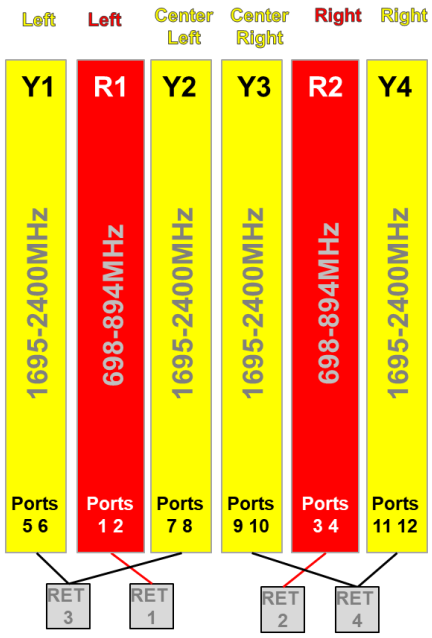
Fully Integrated RET Characteristics

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	2x 8-Pin DIN Female & 2x 8-Pin DIN Male

Port Layout, Array Configuration and RET ID



RET ID	Ports				Arrays		Freq Range
1	1	2			R1		698-894MHz
2			3	4		R2	698-894MHz
3	5	6	7	8	Y1	Y2	1695-2400MHz
4	9	10	11	12	Y3	Y4	1695-2400MHz

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