



- Designed for supporting 4T4R Radios at Low-Band & Mid-Band
- Optimized Azimuth patterns for Min Inter-Sector Interference
- Industry leading Minimal Wind-Load Radome design

- **Optimized for Rooftop Deployments when set back from edge**
- Full length Low & Mid-band Arrays for optimal VBW & Gain
- Designed to minimize External PIM

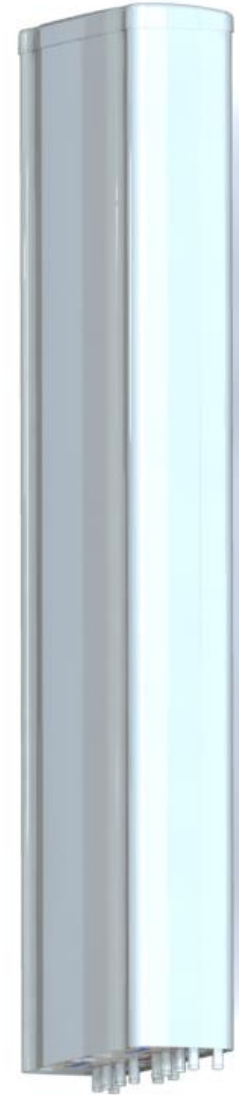
Electrical Characteristics	4x Ports <b>1 2 3 4</b>		4x Ports <b>5 6 7 8</b>			
	698-894		1695-2400			
Operating Frequency (MHz)	698-803	824-894	1695-1780	1850-1990	2110-2180	2300-2400
Peak Gain (dBi)	14.6	15.2	17.0	17.5	17.6	18.5
Azimuth beamwidth <sup>1</sup>	73°	66°	65°	63°	64°	57°
Elevation beamwidth <sup>1</sup>	12.2°	10.8°	6.3°	5.7°	5.2°	4.7°
Gain <sup>1</sup> (dBi)	13.4	14.3	16.0	16.6	16.9	17.5
Polarization	2x ±45°		2x ±45°			
Electrical down-tilt range	2°-14°		0°-9°			
USLS 20°>mainbeam (dB)	>15	>15	>15	>15	>15	>15
FTB at 180°±10° (dB) <sup>1</sup>	25	27	30	32	33	33
Port to Port isolation <sup>1</sup>	30	30	30	30	30	30
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	16	16	18	20
Max Power handling (port)	300 Watts		250 Watts			
Max Power (all ports)	1100 Watts					
PIM (dBc: 2x43dBm)	>153		>153			

<sup>1</sup> Typical Performance across ports, frequencies and Downtilt.

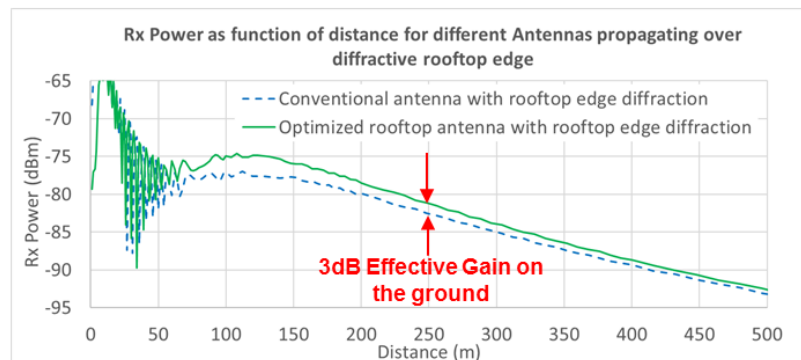
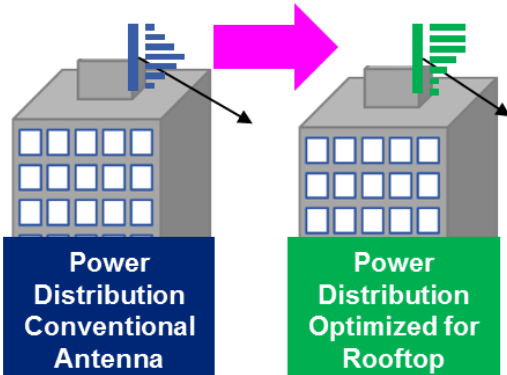
### Mechanical Characteristics

Dimensions	L 72"(1828mm) x W 18.1"(460mm) x D 9.6"(245mm)
Weight (excl mounting brackets)	90lbs (40.9kg)
No. of Connectors	8x 4.3-10.0 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Equivalent Projected Area <sup>2</sup>	Front: 7.8ft <sup>2</sup> (0.72m <sup>2</sup> ) Side: 2.5ft <sup>2</sup> (0.23m <sup>2</sup> )
Wind Load <sup>2</sup> @ 161km/h (45m/s)	Front: 198lbs (882N), Side: 64lbs (284N)
Operating Temperature	-40°C to +65°C

<sup>2</sup> Equivalent Projected Area and Wind Load derived from simulation measurements.  
Equivalent Projected Area assumed C<sub>d</sub>=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

### Port Layout, Array Configuration and RET ID



Left Left Right Right



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

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