

- Full length Mid-band Arrays for optimal VBW and Gain
- Optimized Azimuth patterns for Min Inter-Sector Interference
- Industry leading Minimal Wind-Load Radome design

- Best in class Quality and Internal PIM performance
- Designed to minimize External PIM
- Independent RET for all arrays

Electrical Characteristics	4x Ports 1 2 & 3 4		8x Ports 5 6 7 8 & 9 10 11 12			
	698-894		1695-2400			
Operating Frequency (MHz)	698-803	824-894	1695-1780	1850-1990	2110-2180	2300-2400
Peak Gain (dBi)	15.5	16.4	17.0	17.2	17.4	18.6
Azimuth beamwidth ¹	70°	61°	69°	64°	65°	56°
Elevation beamwidth ¹	9.5°	8.5°	6.3°	5.6°	5.1°	4.7°
Gain ¹ (dBi)	14.7	15.3	16.0	16.6	16.6	17.8
Polarization	2x ±45°		4x ±45°			
Electrical down-tilt range	2x 2°-12°		4x 0°-9°			
Upper SLL at 20°>mainbeam (dB)	>17	>15	>18	>18	>17	>16
Front to Back at 180°±10° (dB) ¹	31	35	36	38	40	36
Port to Port isolation ¹	28	30	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 Discrimination at 0° (dB)	15	15	18	16	17	19
Max Power handling (per any port)	300 Watts		250 Watts			
Total Composite Power (all ports)	1100 Watts					
PIM (dBc: 2x43dBm)	>153		>153			

¹ Typical Performance across ports, frequencies and Downtilt.

Mechanical Characteristics

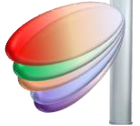
Dimensions	L 96"(2438mm) x W 22"(558mm) x D 9.6"(245mm)
Weight (excl mounting brackets)	155lbs (70.3kg)
No. of Connectors	12x 4.3-10.0 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Equivalent Projected Area ²	Front: 4.06ft ² (0.38m ²) Side: 1.36ft ² (0.13m ²)
Wind Load ² @ 161km/h (45m/s)	Front: 223lbs (992N), Side: 94lbs (418N)
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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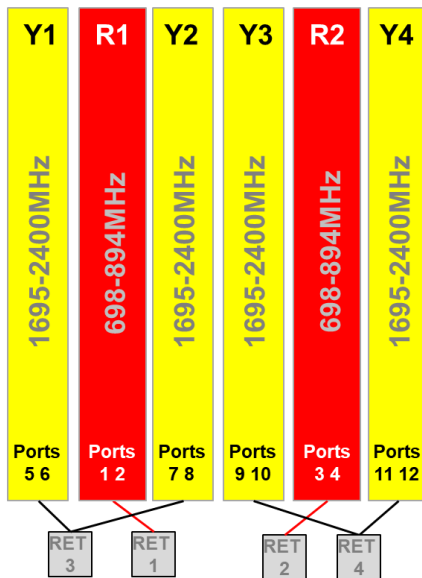
Fully Integrated RET Characteristics

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

Port Layout, Array Configuration and RET ID



Left Left Center Center Right Right
Left Left Center Center Right Right



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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