

2x698-894MHz / 4x1695-2180MHz / 4x3550-4200MHz (5° FET)

- 10-Port Antenna designed to upgrade and replace legacy 6-Port Antennas at site, providing additional 4x CBRs/C-Band Ports.
- Minimal performance impact to any previous Low-Band and Mid-Band service on 6-Port Antennas.
- CBRs/C-Band supplied with different Fixed Electrical Tilt options (0 to 8 degs). Fixed Tilt indicated by last digit of Product Number.

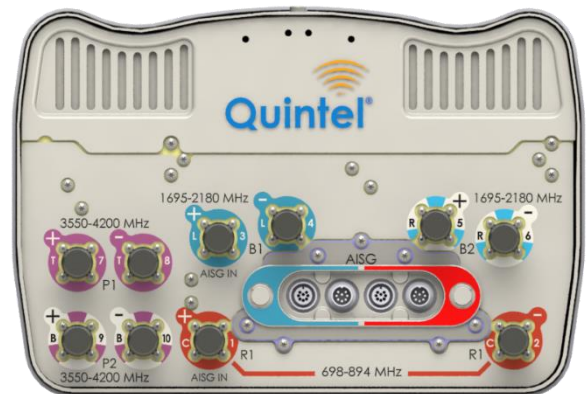
Electrical Characteristics	2x Ports <b>1 2</b>		4x Ports <b>3 4 5 6</b>			4x Ports <b>7 8 9 10</b>	
	698-894		1695-2180			3550-4200	
Operating Frequency (MHz)	698-803	824-894	1695-1780	1850-1990	2110-2180	3550-3700	3700-4200
Peak Gain (dBi)	13.7	13.5	16.3	16.4	17.0	15.9	16.8
Azimuth beamwidth <sup>1</sup>	66°	62°	70°	66°	62°	60°	52°
Elevation beamwidth <sup>1</sup>	17.8°	16.0°	7.5°	7.0°	6.2°	9.1°	8.3°
Average Gain <sup>1</sup> (dBi)	12.5	12.9	15.7	15.8	16.3	15.0	15.2
Polarization	±45°		2x ±45°			2x ±45°	
Electrical down-tilt range	RET 2°-16°		RET 0°-8°			FET 5°	
USLS 20°>mainbeam (dB)	16	16	18	17	15	15	15
FTB at 180°±10° (dB) <sup>1</sup>	29	30	32	30	32	26	25
Port to Port isolation <sup>1</sup>	30	28	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	14/1.5
X Polar at 0° (dB)	17	16	21	23	18	15	15
Max Power handling (port)	300 Watts		250 Watts			150 Watts	
Max Power (all ports)	1000 Watts						
PIM (dBc: 2x43dBm)	>153		>153			>153	

<sup>1</sup> Average across ports, frequencies and tilts including the different Fixed Tilt product options at 3550-4200MHz.

## Mechanical Characteristics

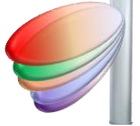
Dimensions	L 52"(1320mm) x W 14.3"(363mm) x D 9.6"(245mm)
Weight (excl mounting brackets)	62lbs (28.2kg)
No. of Connectors	10x 4.3-10.0 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Equivalent Projected Area <sup>2</sup>	Front: 2.1ft <sup>2</sup> (0.20m <sup>2</sup> ) Side: 3.5ft <sup>2</sup> (0.33m <sup>2</sup> )
Wind Load <sup>2</sup> @161km/h (45m/s)	Front: 75lbs (334N), Side: 80lbs (356N)
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



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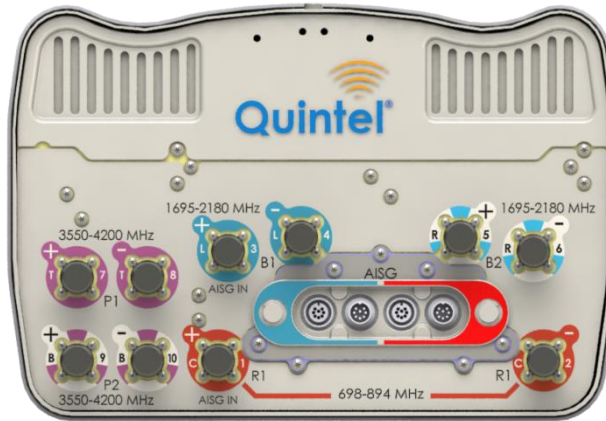
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### Fully Integrated RET Characteristics

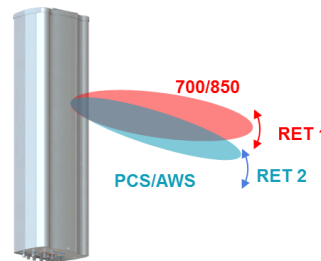
Protocol	V 2.0/3GPP (S-RET Type 1)
Surge immunity	IEC 61000-4-5:2005 4KV(AISG PIN)
AISG Data rate	9.6 kbps
RET Connectors	2x 8-Pin DIN Female & 2x 8-Pin DIN Male

### Port Layout, Array Configuration and RET ID

The RET devices can be communicated via the designated external AISG connector or RF Port as shown below.



RET ID	Ports		Arrays	Freq Range			
1	1	2	R1	698-894MHz			
2	3	4	5	6	B1	B2	1695-2180MHz
FET	7	8	9	10	P1	P2	3550-4200MHz



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