



- High-Band Full Tilt range to 0-10
- Provides 6 antenna Ports in a slim-line form factor
- Optimized Azimuth patterns for Min Inter-Sector Interference

- 700, 850, PCS, AWS & WCS bands in one antenna
- AISG & 3GPP compliant internal (RET) with Smart Bias T
- Industry leading Minimal Wind-Load design

Electrical Characteristics	2x Ports 1 2		4x Ports 3 4 5 6			
	698-894		1695-2400			
Operating Frequency (MHz)	698-806	814-894	1695-1780	1850-1990	2110-2180	2300-2400
Azimuth beamwidth ¹	65°	59°	69°	66°	62°	60°
Elevation beamwidth ¹	10.2°	8.6°	6.2°	5.8°	5.2°	4.8°
Gain ¹ (dBi)	15.0	15.0	17.2	17.0	17.5	18.1
Polarization	±45°		2x ±45°			
Electrical down-tilt range	2°-10°		0° – 10°			
Upper SLL at 20°>mainbeam (dB) ¹	14	12	13	14	16	13
Front to Back at 180°±10° (dB) ¹	27	24	27	28	31	30
Port to Port isolation ¹	30	30	30	30	30	30
Return loss/VSWR (>dB/VSWR)	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5
X Polar Discrimination at 0° (dB)	13	15	24	19	15	14
Max Power handling (per any port)	500 Watts		250 Watts			
Total Composite Power (all ports)	1750 Watts					
PIM (dBc: 2x43dBm)	>153		>153			

¹ Typical Performance across frequencies and Downtilt.

Mechanical Characteristics	
Dimensions	L 96"(2438mm) x W 12"(304mm) x D 9.6"(245mm)
Weight (excl mounting brackets)	94lbs (42.7kg)
No. of Connectors	6x 7/16 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Equivalent Projected Area ²	Front: 3.2ft ² (0.30m ²) Side: 6.1ft ² (0.57m ²)
Wind Load ² @161km/h (45m/s)	Front: 79.2lbs (352N), Side: 153lbs (680N)
Operating Temperature	-40°C to +65°C

² Equivalent Projected Area and Wind Load derived from windtunnel measurements.
Equivalent Projected Area assumed C_d=1



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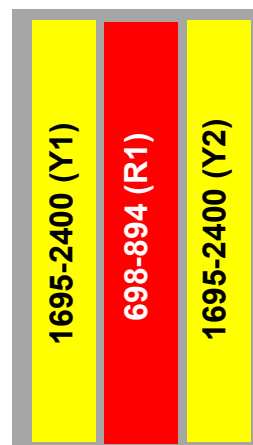
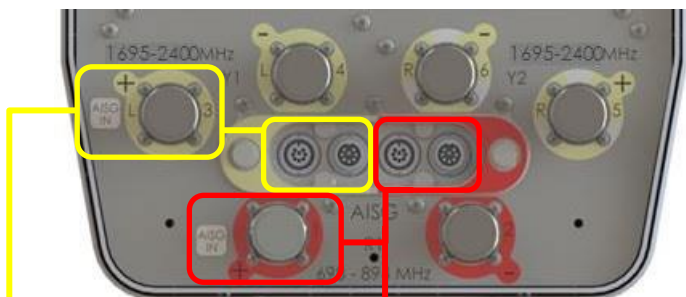
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Fully Integrated RET Characteristics

AISG Standards	V1.1, V 2.0 and 3GPP
Surge immunity	IEC 61000-4-5:2005 4KV (AISG PIN)
Device Type	SRET Type 1
AISG Data rate	9.6 kbps
No of connectors	2in/2out.
Connector type	IEC 60130-9 (Ed 3.0)

Port Layout, Array Configuration and RET ID

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



AISG I/O Configuration

RET Device	Band	RF Ports
2	1695-2400	3-6

AISG I/O Configuration

RET Device	Band	RF Ports
1	698-894	1-2