

▼ Electrical

Ports			4 x Low Band Ports for 698-896 MHz	
Frequency Range	698-798 MHz	824-896 MHz		
Gain ¹	15.1 dBi	16.0 dBi		
Gain (Average) ²	14.1 dBi	15.1 dBi		
Azimuth Beamwidth (1-SdB)	75°	64°		
Elevation Beamwidth (1-SdB)	9.5°	8.0°		
Electrical Down tilt	2° to 12°	2° to 12°		
Elevation Sidelobes (1st Upper)	< -19 dB	< -19 dB		
Front-to-Back Ratio @30°	> 32 dB	> 35 dB		
Front-to-Back Ratio @20°	> 30 dB	> 35 dB		
Cross-Polar Discrimination at Peak	> 25 dB	> 25 dB		
Cross-Polar Discrimination at Sector ³	10.9 dB	11.0 dB		
Cross-Polar Port-to-Port Isolation	> 25 dB	> 25 dB		
Voltage Standing Wave Ratio (VSWR)	< 1.5:1	< 1.5:1		
Passive Intermodulation (2x20W)	≤ -153 dBc	≤ -153 dBc		
Input Power Continuous Wave (ICW)	500 watts	500 watts		
Polarization	Dual Linear 45°	Dual Linear 45°		
Input Impedance	50 ohms	50 ohms		
Lightning Protection	DC Ground	DC Ground		

¹Peak gain across sub-bands.

²Electrical specifications follow document: Recommendation on Base Station Antenna Standards (EAC/TA V9.4)

Ports					4 x High Band Ports for 1695-2400 MHz			
Frequency Range	1695-1880 MHz	1950-1990 MHz	1920-2160 MHz	2300-2400 MHz				
Gain ¹	17.6 dBi	17.8 dBi	18.2 dBi	18.1 dBi				
Gain (Average) ²	16.7 dBi	17.0 dBi	17.3 dBi	17.2 dBi				
Azimuth Beamwidth (1-SdB)	70°	68°	68°	54°				
Elevation Beamwidth (1-SdB)	5.7°	5.1°	4.8°	4.1°				
Electrical Down tilt	0° to 8°	0° to 8°	0° to 8°	0° to 8°				
Elevation Sidelobes (1st Upper)	< -17 dB	< -18 dB	< -18 dB	< -17 dB				
Front-to-Back Ratio @30°	> 35 dB	> 35 dB	> 35 dB	> 35 dB				
Front-to-Back Ratio @20°	> 32 dB	> 32 dB	> 32 dB	> 32 dB				
Cross-Polar Discrimination at Peak	> 19 dB	> 18 dB	> 20 dB	> 20 dB				
Cross-Polar Discrimination at Sector ³	10.8 dB	8.2 dB	8.5 dB	8.3 dB				
Cross-Polar Port-to-Port Isolation	> 25 dB	> 25 dB	> 25 dB	> 25 dB				
Voltage Standing Wave Ratio (VSWR)	< 1.5:1	< 1.5:1	< 1.5:1	< 1.5:1				
Passive Intermodulation (2x20W)	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc	≤ -153 dBc				
Input Power Continuous Wave (ICW)	300 watts	300 watts	300 watts	300 watts				
Polarization	Dual Linear 45°	Dual Linear 45°	Dual Linear 45°	Dual Linear 45°				
Input Impedance	50 ohms	50 ohms	50 ohms	50 ohms				
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground				

¹Peak gain across sub-bands.

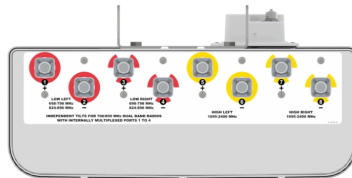
²Electrical specifications follow document: Recommendation on Base Station Antenna Standards (EAC/TA V9.4)

▼ Mechanical

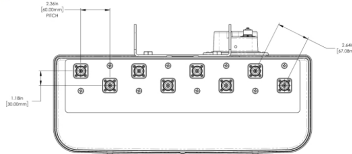
Dimensions (LxWxD)	96.0x207x77 in (2438x525x197 mm)
Survival Wind Speed	> 150 mph (> 241 kph)
Front Wind Load	437 lbs (2033 N) @ 100 mph (161 kph)
Side Wind Load	209 lbs (952 N) @ 100 mph (161 kph)
Equivalent Flat Plane Area	17.9 m ² (177 m ²)
Weight*	219 lbs (104.2 kg)
Connector	8 x RJ-45 female
Mounting Pole	2 to 5 in (5 to 12 cm)

*Weight excludes mounting

Bottom View



Connector Spacing



RET to Element Configuration

Diagram illustrating RET placement as viewed from rear of antenna. It shows three RET modules (MM.1, MM.2, MM.3) and their corresponding array configurations.

Array	Ports	Freq (MHz)	Ports connected by individual RET	RET Installed on Antenna	AISG RET UID
R3	1, 2	698-798	1, 2, 3, 4	Top (700 RET)	CxxxxxMM.1
R4	3, 4	824-896	1, 2, 3, 4	Middle (650 RET)	CxxxxxMM.2
V1	5, 6	1695-2400	5, 6, 7, 8	Bottom	CxxxxxMM.3
V2	7, 8				

Port Label diagram showing the physical layout of the ports.

▼ Typical Antenna Patterns

For detailed information on additional antenna patterns, contact customer support at support@ccproducts.com

