

Electrical

Ports	2 x Low Band Ports for 690-960 MHz		
Frequency Range	690-856 MHz	824-896 MHz	880-960 MHz
Gain ¹	14.5 dBi	14.6 dBi	14.6 dBi
Gain (Average) ²	14.1 dBi	14.3 dBi	14.1 dBi
Azimuth Beamwidth (1-5dB)	65°	65°	61°
Elevation Beamwidth (1-5dB)	12.7°	11.0°	10.3°
Electrical Downlink	0° to 10°	0° to 10°	0° to 10°
Elevation Sidelobes (1st Upper)	< -18 dB	< -18 dB	< -18 dB
Front-to-Back Ratio @180°	> 29 dB	> 30 dB	> 35 dB
Front-to-Back Ratio over ± 20°	> 29 dB	> 30 dB	> 35 dB
Cross-Polar Discrimination (at Peak)	> 24 dB	> 25 dB	> 25 dB
Cross-Polar Port-to-Port Isolation	> 25 dB	> 25 dB	> 25 dB
Voltage Standing Wave Ratio(VSWR)	< 1.5:1	< 1.5:1	< 1.5:1
Passive Intermodulation (2x20W)	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	500 watts	500 watts	500 watts
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°
Input Impedance	50 ohms	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground

¹Peak gain across sub-bands.
²Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (BASTA) V9.6.

Ports	8 x High Band Ports for 1695-2400 MHz			
Frequency Range	1695-1880 MHz	1850-1990 MHz	1920-2180 MHz	2300-2400 MHz
Gain ¹	17.5 dBi	17.0 dBi	18.3 dBi	18.7 dBi
Gain (Average) ²	16.6 dBi	17.2 dBi	17.5 dBi	18.1 dBi
Azimuth Beamwidth (1-5dB)	36°	34°	32°	29°
Elevation Beamwidth (1-5dB)	9.7°	8.9°	8.5°	7.5°
Electrical Downlink	0° to 10°	0° to 10°	0° to 10°	0° to 10°
Elevation Sidelobes (1st Upper)	< -17 dB	< -16 dB	< -17 dB	< -18 dB
Front-to-Back Ratio @180°	> 35 dB	> 35 dB	> 35 dB	> 35 dB
Front-to-Back Ratio over ± 20°	> 30 dB	> 30 dB	> 30 dB	> 30 dB
Cross-Polar Discrimination (at Peak)	> 25 dB	> 25 dB	> 25 dB	> 25 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)	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	300 watts	300 watts	300 watts	300 watts
Polarization	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°	Dual Pol 45°
Input Impedance	50 ohms	50 ohms	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground

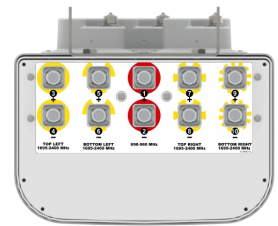
¹Peak gain across sub-bands.
²Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (BASTA) V9.6.

Mechanical

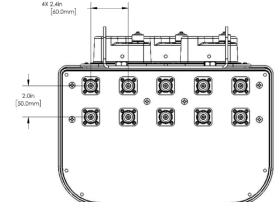
Dimensions (LxWxD)	70.0x13.4x8.5 in (1823x340x216 mm)
Survival Wind Speed	> 150 mph (> 241 km/h)
Front Wind Load	243 lbs (1098 N) @ 100 mph (161 kph)
Side Wind Load	160 lbs (749 N) @ 100 mph (161 kph)
Equivalent Flat Plate Area	9.9 sq ft (0.91 m ²)
Weight*	50.5 lbs (22.9 kg)
RET System Weight	5.0 lbs (2.3 kg)
Connector	12 x 4 3-15 female
Mounting Pole	2 to 5 in (5 to 12 cm)

*Weight excludes mounting and RET

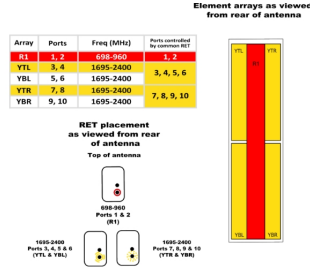
Bottom View



Connector Spacing



RET to Array Configuration



Typical Antenna Patterns

Connector Spacing
 For detailed information on additional antenna patterns, contact customer support at support@ccipproducts.com

