

▼ Electrical

Ports	2 x Low Band Ports for 698-798 MHz	2 x Low Band Ports for 824-896 MHz
Frequency Range	698-798 MHz	824-896 MHz
Gain	13.3 dB	13.3 dB
Gain (Average)*	24.8 dB	13.3 dB
Azimuth Beamwidth (-3dB)	62°	66°
Elevation Beamwidth (-3dB)	9.7°	9.3°
Electrical Downshift	0° to 10°	0° to 10°
Elevation Side-lobes (to Upper)	< -18 dB	< -20 dB
Front-to-Back Ratio @180°	> 35 dB	> 35 dB
Cross-Polar Discrimination at Peak	> 25 dB	> 25 dB
Cross-Polar Discrimination at Sector	> 13 dB	> 14 dB
Cross-Polar Port-to-Port Isolation	> 25 dB	> 25 dB
Voltage Standing Wave Ratio (VSWR)	< 1.5:1	< 1.5:1
Passive Intermodulation (D220W)	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	500 watts	500 watts
Modulation	Dual Linear 45°	Dual Linear 45°
Input Impedance	50 ohms	50 ohms
Lightning Protection	DC Ground	DC Ground

*Real gain across sub-bands.

*Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (DRAFT) V1.6

Ports	4 x High Band Ports for 1695-2400 MHz			
Frequency Range	1695-1880 MHz	1850-1950 MHz	1920-2180 MHz	2300-2400 MHz
Gain	13.2 dB	12.2 dB	18.1 dB	18.0 dB
Gain (Average)*	17.1 dB	17.5 dB	17.7 dB	17.2 dB
Azimuth Beamwidth (-3dB)	62°	62°	62°	59°
Elevation Beamwidth (-3dB)	5.6°	5.3°	4.7°	4.0°
Electrical Downshift	0° to 3°	0° to 3°	0° to 3°	0° to 3°
Elevation Side-lobes (to Upper)	< -18 dB	< -18 dB	< -18 dB	< -18 dB
Front-to-Back Ratio @180°	> 25 dB	> 25 dB	> 25 dB	> 25 dB
Cross-Polar Discrimination at Peak	> 18 dB	> 17 dB	> 18 dB	> 17 dB
Cross-Polar Discrimination at Sector	> 11 dB	> 9 dB	> 9 dB	> 7 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 (D220W)	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc	≤ -150 dBc
Input Power Continuous Wave (CW)	300 watts	300 watts	300 watts	300 watts
Modulation	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

*Real gain across sub-bands.

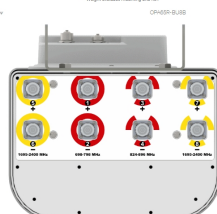
*Electrical specifications follow document "Recommendation on Base Station Antenna Standards" (DRAFT) V1.6

▼ Mechanical

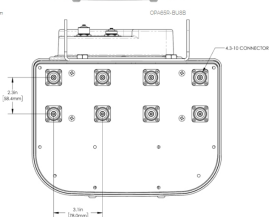
Dimensions (LxWxD)	95.9x12.7x3.4 in (2437x297x124 mm)
Survival Wind Speed	> 150 mph (1-241 kph)
Front Wind Load	137 lbf (225 N) @ 150 mph (165 kph)
Side Wind Load	229 lbf (330 N) @ 150 mph (165 kph)
Equivalent Flat Plate Area	11.2 m ² (110 sq ft)
Weight*	69.5 lb (31.3 kg)
RET Weight	5.0 lb (2.3 kg)
Connector	3 x 4.5-32 Female
Mounting Pole	2 to 5 in (5 to 12 cm)

*Weight includes mounting and RET

Bottom View



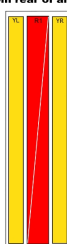
Connection Spacing Diagram



RET to Element Configuration

RET to Element Configuration

Element arrays as viewed from rear of antenna



RET placement as viewed from rear of antenna

Top of antenna



Array	Ports	Freq (MHz)	Ports controlled by element RET
R1	1, 2	698-798	1, 2
R2	3, 4	824-896	3, 4
YL	5, 6	1695-2400	5, 6, 7, 8
YH	7, 8	1695-2400	5, 6, 7, 8

▼ Typical Antenna Patterns

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

