Multi-Band Antenna EPI (12 port)

8ft / 65°

Electrical Specification

Product Number		EPBQ-654L8H8-L2-EPI-0T					
Frequency Range (MHz)		R1, R2		Y1, Y2, Y3, Y4			
		698 ~ 806	806 ~ 894	1695 ~ 1850	1850 ~ 1910	1910~ 2180	2300 ~ 2400
3 dB Beam-Width	Horizontal	67°	66°	61°	60°	60°	60°
	Vertical	9.3°	8.7°	8.1°	7.8°	7.4°	6.8°
Gain (dBi)		15.9	16.2	16.9	17.3	17.7	17.8
Electrical Down Tilt Range		0° ~ 12°					
1st Upper Side Lobe Suppression		> 16 dB					
Front-to-Back Ratio		> 25 dB					
Polarization Type		± 45°					
Cross-Polar Discrimination (XPD)	Boresight	> 15 dB					
	± 60°	> 7 dB					
Input Maximum CW Power (W)		400			300		
Impedance (Ω)		50					
VSWR		≤ 1.5 : 1					
Port Isolation	Intra Array	≥ 25 dB					
	Inter Array	≥ 25 dB, Co. Pol		≥ 30 dB, Co. Pol			
	Inter Band	698 ~ 894 MHz // 1695 ~ 2180 MHz : > 30 dB 698 ~ 894 MHz // 2300 ~ 2400 MHz : > 30 dB					
Passive Intermodulation, IM3 (@2 x 43 dBm)		≤ - 107 dBm					

Mechanical Specification

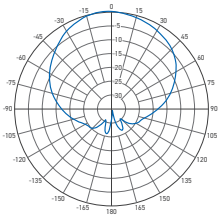
Dimension (W x D x L)	533 x 160 x 2438 mm (21 x 6.3 x 96 inch)
Antenna Weight	38 kg (83.8 lbs) / Without Clamp
Adjustable Clamp Weight	6.4 kg (14.1 lbs)
Fixed Clamp Weight	1.9 kg (4.1 lbs)
Max. Wind Speed	67 m/s (0 mph)
Wind Load (@100 mph), Front / Side / Rear	1718 N / 495 N / 1309 N (0 lbf / 0 lbf / 0 lbf)
Connector (Type / Position)	12 x 4.3-10 (Female) / Bottom
Operating Temperature	-40℃ ~ +70℃

Front / Side / Back View

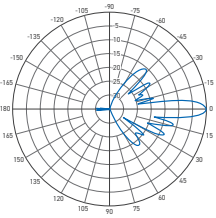


Pattern

698 ~ 894 MHz

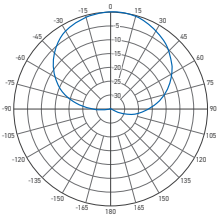


Horizontal

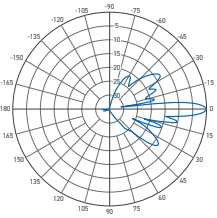


Vertical

1695 ~ 2400 MHz (Y1, Y2)

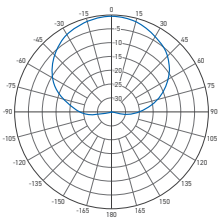


Horizontal

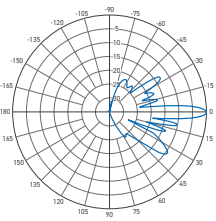


Vertical

1695 ~ 2400 MHz (Y3, Y4)

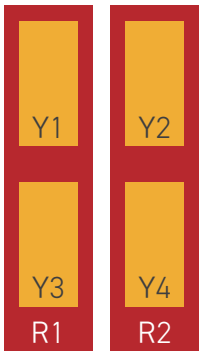


Horizontal

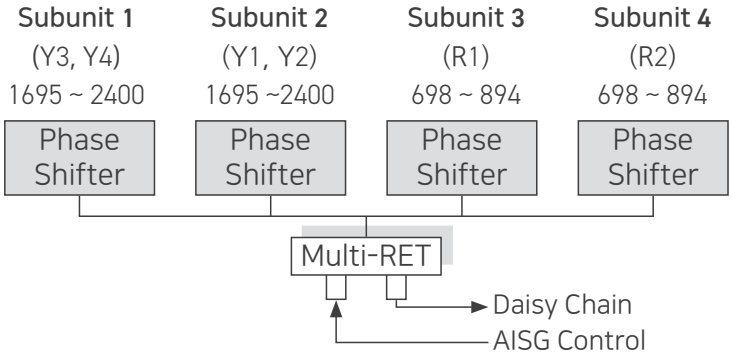


Vertical

Block Diagram



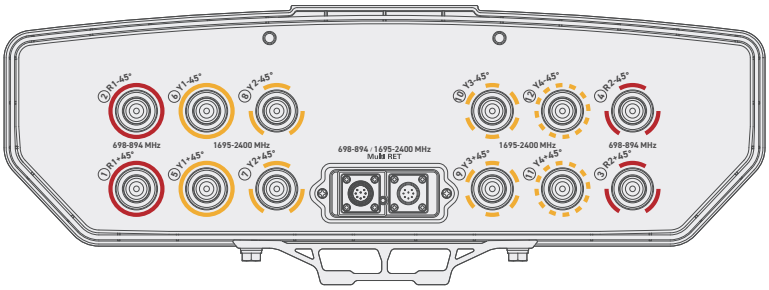
Antenna Bottom



Correlation Table

Frequency Range	Array	Connector
698 ~ 894 MHz	R1	4.3 ~ 10 Female
698 ~ 894 MHz	R2	4.3 ~ 10 Female
1695 ~ 2400 MHz	Y1	4.3 ~ 10 Female
1695 ~ 2400 MHz	Y2	4.3 ~ 10 Female
1695 ~ 2400 MHz	Y3	4.3 ~ 10 Female
1695 ~ 2400 MHz	Y4	4.3 ~ 10 Female

Bottom View



Note

- Gain can vary and the values stated are typical.
- Environmental Compliance: IP65 for Radome & IP67 for Connectors.
- RET Motor Configuration : Field Replaceable RET Electronic Control Module.
  : RET Motor is internal to antenna & not field replaceable.
- Compliant with AISG : AISG 2.0.
- Accessory : Standard Mounting Kit is included.
  (Mechanical Down Tilt, KCLDM1A47000 is sold separately)