Multi-Band Antenna (20 port)

6ft / 65°

Electrical Specification

Product Number		EHBS-654L8M8H6							
Frequency Range (MHz)		R1, R2		Y1, Y2, Y3, Y4				P1, P2, P3, P4	
		698 ~ 806	806 ~ 894	1695 ~ 1850	1850 ~ 1910	1910 ~ 2180	2300 ~ 2400	3500 ~ 3700	3700 ~ 4000
3 dB Beam-Width	Horizontal	69°	65°	63°	61°	59°	58°	85°	82°
	Vertical	12.5°	12°	10.5°	10°	9.3°	8.8°	6.5°	6.2°
Gain (dBi)		14.7°	15.5°	15.5°	15.7°	15.9°	16.1°	16°	16.2°
Electrical Down Tilt Range		2° ~ 16°		2° ~ 12°				0° ~ 10°	
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				75	
Impedance (Ω)		50							
VSWR		≤ 1.5 : 1							
Port Isolation	Intra Array	≥ 25 dB		≥ 25 dB				≥ 20 dB	
	Inter Array	≥ 25 dB, Co Pol.		≥ 30 dB, Co Pol.				≥ 20 dB, Co Pol.	
	Inter Band	R // Y: > 30 dB		Y // R: > 30 dB				-	
Passive Intermodulation, IM3 (@2 x 43 dBm)		≤ - 107 dBm		≤ - 107 dBm				≤ - 97 dBm	

Mechanical Specification

Dimension (W x D x L)	533 x 180 x 1854 mm (21 x 7.1 x 73 inch)
Antenna Weight	34.7 kg (76.5 lbs) / Without Clamp
Adjustable Clamp Weight	6.4 kg (14.1 lbs)
Fixed Clamp Weight	2.2 kg (4.9 lbs)
Max. Wind Speed	66.7 m/s (150 mph)
Wind Load (@100 mph), Front / Side / Rear	1,306 N / 433 N / 995 N (386 lbf /128 lbf /294 lbf)
Connector (Type / Position)	20 x 4.3-10 (RF port), 1 x 4.3-10 (Cal Port, Female) / Bottom
Operating Temperature	-40℃ ~ +70℃

Front / Side / Back View

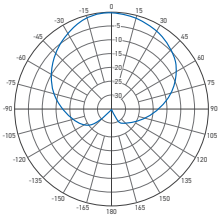




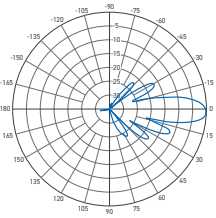


Pattern

698 ~ 894 MHz

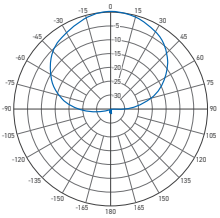


Horizontal

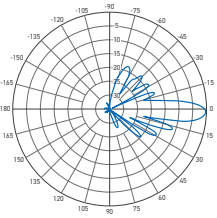


Vertical

1695 ~ 2400 MHz

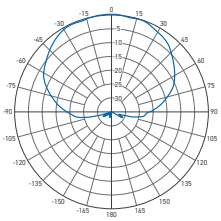


Horizontal

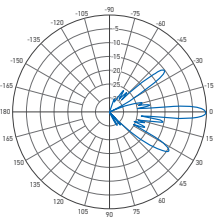


Vertical

1695 ~ 2400 MHz

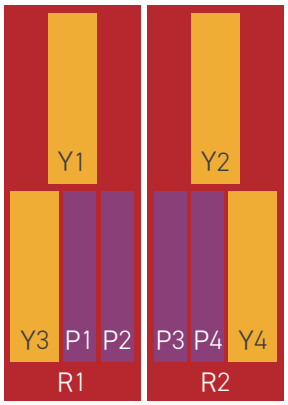


Horizontal

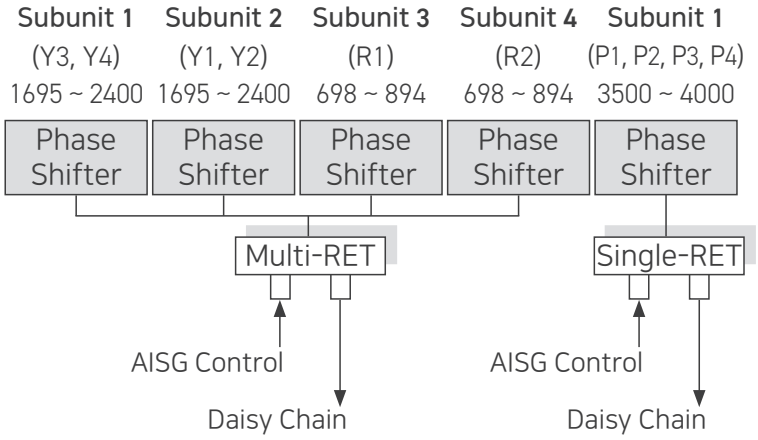


Vertical

Block Diagram



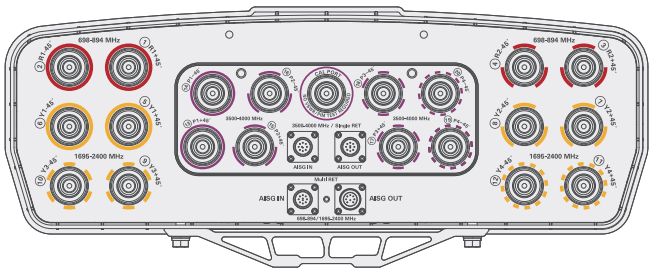
Antenna Bottom



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
3500 ~ 4000 MHz	P1	4.3 ~ 10 Female
3500 ~ 4000 MHz	P2	4.3 ~ 10 Female
3500 ~ 4000 MHz	P3	4.3 ~ 10 Female
3500 ~ 4000 MHz	P4	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)