# Multi-Band Antenna (16 port)

## 6ft / 65°

## Electrical Specification

| Product Number | | EHBS-654L4M8H6 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 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 | 12.1° | 11.5° | 5.7° | 5.5° | 5.3° | 5° | 6.5° | 6.2° |
| Gain (dBi) | | 14.7° | 15.5° | 17° | 17.3° | 17.6° | 17.8° | 16° | 16.2° |
| Electrical Down Tilt Range | | 0° ~ 12° | | 0° ~ 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

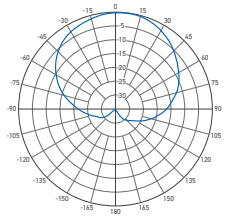
| | |
|---|---|
| Dimension (W x D x L) | 533 x 180 x 1854 mm (21 x 7.1 x 73 inch) |
| Antenna Weight | 32.7 kg (72.1 lbs) / Without Clamp |
| Adjustable Clamp Weight | 6.4 kg (14.1 lbs) |
| Fixed Clamp Weight | 2.2 kg (4.9 lbs) |
| Max. Wind Speed | 66.7 m/s (150 mph) |
| Wind Load (@100 mph), Front / Side / Rear | 1,306 N / 433 N / 995 N (386 lbf /128 lbf /294 lbf) |
| Connector (Type / Position) | 16 x 4.3-10 (RF port), 1 x 4.3-10 (Cal Port, Female) / Bottom |
| Operating Temperature | -40℃ ~ +70℃ |

## Front / Side / Back View

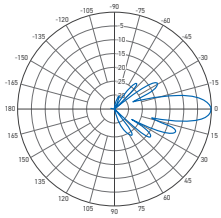


## Pattern

### 698 ~ 894 MHz

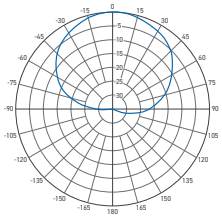


Horizontal

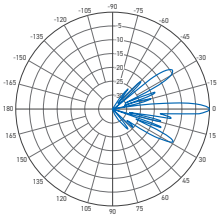


Vertical

### 1695 ~ 2400 MHz

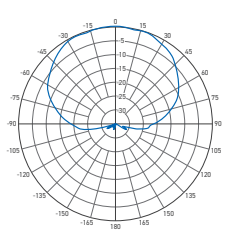


Horizontal

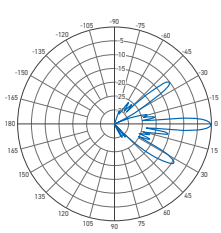


Vertical

### 1695 ~ 2400 MHz

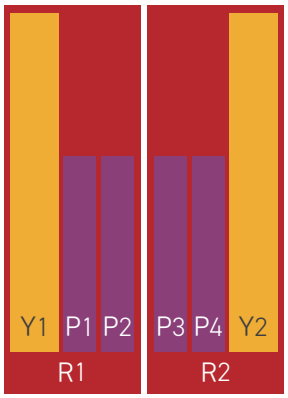


Horizontal

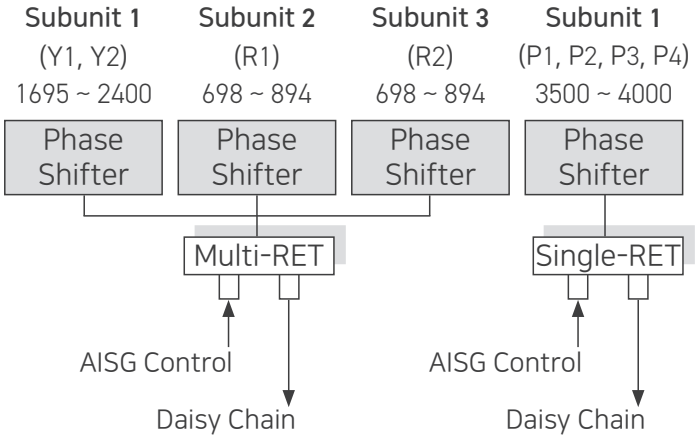


Vertical

## Block Diagram



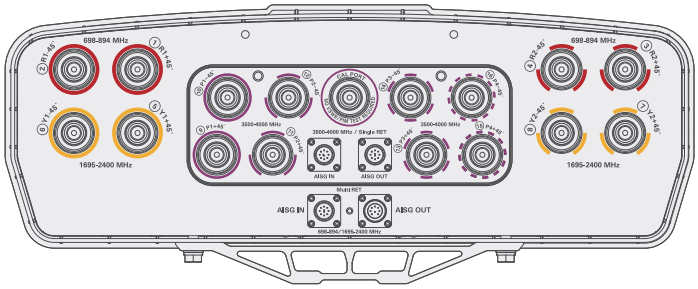

Antenna Bottom




### 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 |
| 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)