Multi Port Antenna (16 port)

Electrical Specification

Product Number		ETCR - 654L12H6C (Canister Sector EDTA)		
Frequency Range (MHz)		817 ~ 869	1850 ~ 1995	2496 ~ 2690
3 dB Beam-Width	Horizontal	65° ± 5°	65° ± 5°	65 ° ± 5°
	Vertical	9° ± 1°	5° ± 1°	5° ± 1°
Gain (dBi)		15 ± 0.5	18 ± 0.5	18 ± 0.5
Electrical Down Tilt Range		0° ~ 8°	0° ~ 8°	0° ~ 6°
1st Upper Side Lobe Suppression		> 18 dB (up to 15° EL)	> 18 dB (up to 10° EL)	> 18 dB (up to 10° EL)
Front-to-Back Ratio @180 ± 15° (Total power)		> 24 dB	> 28 dB	> 28 dB
Polarization Type		± 45°	± 45°	± 45°
Cross-Polar Discrimination (XPD)	- 3 dB HBW	> 15 dB	> 15 dB	> 15 dB
	± 60°	> 10 dB	> 10 dB	> 7 dB
Input Maximum CW Power (W)		250	250	250
Impedance (Ω)		50	50	50
VSWR		< 1.43 : 1	< 1.43 : 1	< 1.43 : 1
Port Isolation	Intra Array	> 26 dB	> 28 dB	> 26 dB
	Inter Array	> 28 dB, Co Pol.		> 24 dB, Co Pol.
	Inter Band	800 MHz // 1900 MHz : > 28 dB 800 MHz // 2600 MHz : > 28 dB 1900 MHz // 2600 MHz : > 28 dB		
Passive Intermodulation, IM3 (@2 x 43 dBm)		≤ - 110 dBm	≤ - 110 dBm	≤ - 105 dBm
Operation temperature		- 40℃ to + 55℃		
Antenna Control Interface		Field Replaceable Internal RET, AISG 2.0		

Beamforming Specification

Cross Pole Configuration @2600 MHz			0.65 λ
Broadcasting beam	Gain, dBi		17.5
	Horizontal Beamwidth, deg		65° ± 5°
Service beam	Boresight	Gain, dBi	22.5 ± 0.5
		Horizontal BW, deg	22°

Mechanical Specification

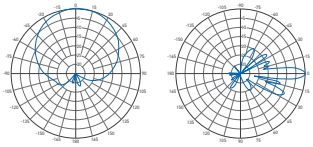
Dimension (L x Ø)	2,640 x 914 mm (104 x 36 inch)
Antenna Weight (Single x 3)	58 kg/127.9 lbs x 3 = 174kg/ 383.7 lbs
Adaptor Weight	75 kg / 165.3 lbs
Max. Wind Speed	67 m/s (150 mph)
Wind Load (@100 mph), Around	4,713 N (1,060 lbf)
Connector (Type / Position)	24 x 7 / 16"DIN (Female), 24 x MINI DIN (Female), 3 x N type (Cal Port, Female) / Bottom

Front View



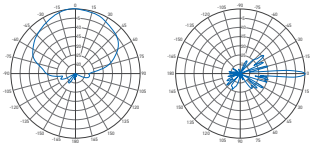
Pattern

817 ~ 869 MHz



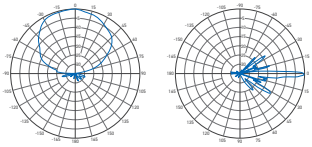
Horizontal Vertical

1850 ~ 1995 MHz



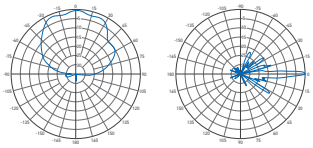
Horizontal Vertical

2496 ~ 2690 MHz



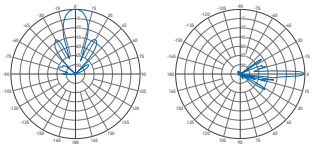
Horizontal Vertical

Broadcast



Horizontal Vertical

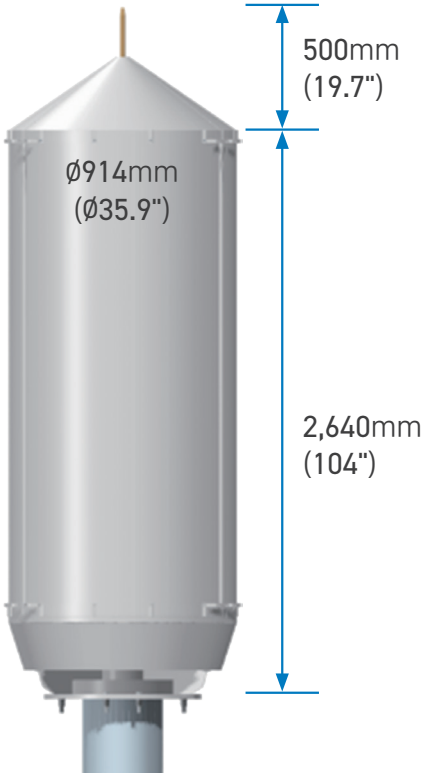
Service

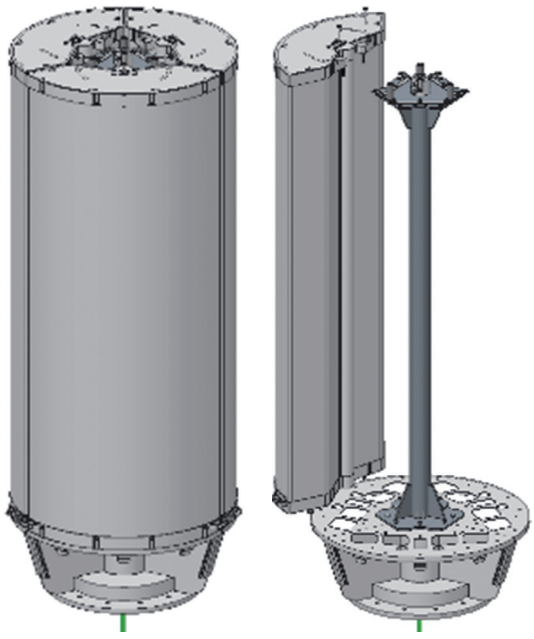


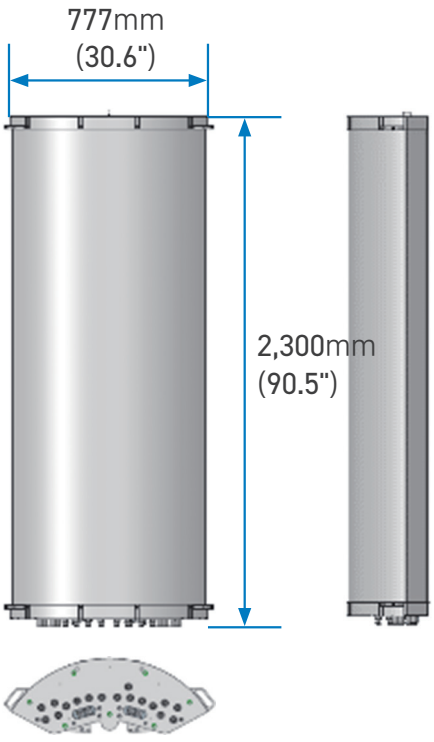
Horizontal Vertical

Canister Configuration

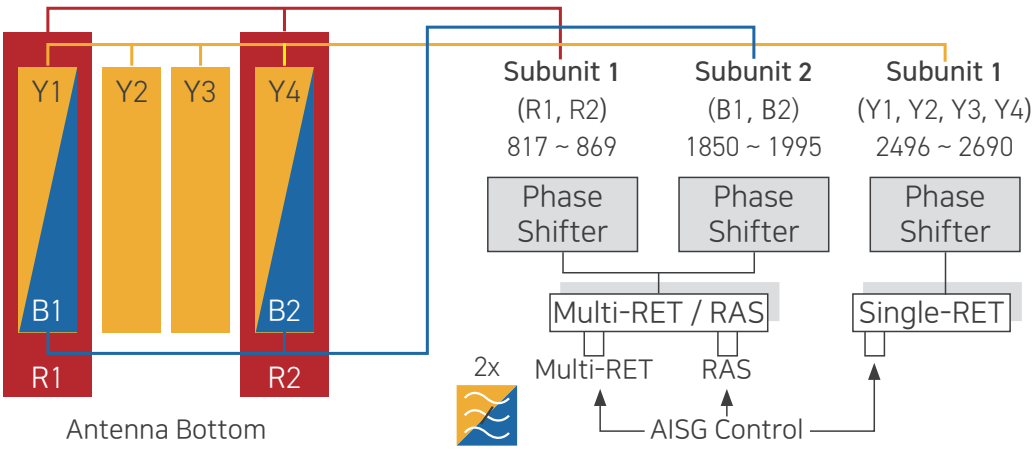








Block Diagram



Correlation Table

Frequency Range	Array	Connector
817 ~ 869 MHz	R1	7/16" Female
817 ~ 869 MHz	R2	7/16" Female
1850 ~ 1995 MHz	B1	7/16" Female
1850 ~ 1995 MHz	B2	7/16" Female
2496 ~ 2690 MHz	Y1	4.1 ~ 9.5 Female
2496 ~ 2690 MHz	Y2	4.1 ~ 9.5 Female
2496 ~ 2690 MHz	Y3	4.1 ~ 9.5 Female
2496 ~ 2690 MHz	Y4	4.1 ~ 9.5 Female

Bottom View



Note

- Gain can vary and the values stated are typical
- Environmental Compliance : IP 65 for Radome & IP 67 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, KCLDM1B30000 is sold separately)