16 dBi 65˚ Antenna (4 port)

Electrical Specification

Product Number		ESM654H3 - RU3
Frequency Range (MHz)		1730 ~ 1845
3 dB Beam-Width	Horizontal	65° ± 5°
	Vertical	10° ± 1°
Gain (dBi)		16
Electrical Down Tilt Range		0° ~ 15°
1st Upper Side Lobe Suppression		> 12 dB
Front-to-Back Ratio ± 30° (Total power)		> 25 dB
Polarization Type		± 45°
Cross-Polar Discrimination (XPD)	Boresight	> 18 dB
	± 60°	> 7 dB
Input Maximum CW Power (W)		100 W / port (Total 400 W)
Impedance (Ω)		50
VSWR		< 1.5 : 1
Port Isolation	Intra Array	> 25 dB
	Inter Array	> 25 dB
Passive Intermodulation, IM3 (@2 x 43dBm)		< - 107 dBm
RET Motor Configuration		Internal RET Electronic Control Module. RET Motor is internal to antenna & not field replaceable.
Antenna Control Interface		Internal RET, AISG 2.0. No Daisy chain function. Port 1 is RET control signal port.

Mechanical Specification

Dimension (W x D x L)	280 x 117 x 900mm (11 x 4.6 x 35.4 inch)
Antenna Weight	9.2 kg / 20.3 lbs
Wind Load (@90 m/s)	836 N (Front) / 1,052 N (Maximum)
Connector (Type / Position)	2 x TCC (2 port each) / Rear side
Radome Material	ASA + PC
Radome Color	Gray

Accessories (Mechanical Down-tilt KIT)

Weight	7 kg / 15.4 lbs
Material	Hot-dip galvanized steel [SS400]
Mounting Pole Diameter	Ø 89.1, Ø 101.6, Ø 114.3 mm

Accessories (3Sector Clamp)

Weight	18.5 kg / 40.8 lbs
Material	Hot-dip galvanized steel [SS400]
Mounting Pole Diameter	Ø 89.1, Ø 101.6, Ø 114.3 mm
Maximum load	600 kg

Front / Side / Back View

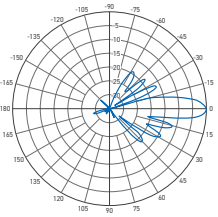


Pattern

1730 ~ 1845 MHz

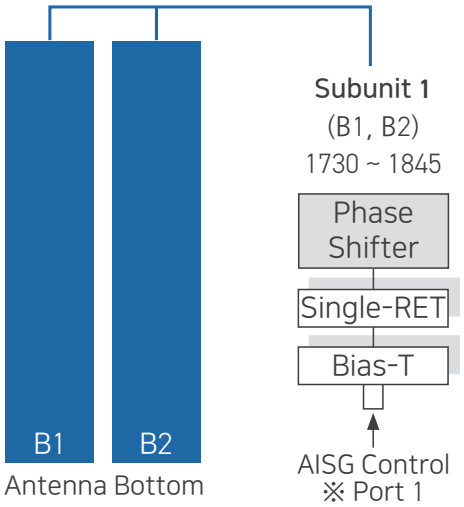


Horizontal



Vertical

Block Diagram



Correlation Table

Frequency Range	Array	Connector
1730 ~ 1845 MHz	B1	TCC
1730 ~ 1845 MHz	B2	TCC

Note

- RET Motor Configuration : RET Motor is internal to antenna & not field replaceable.
- Compliant with AISG : AISG 2.0