

MATSING[®]

LENS TECHNOLOGY ENABLED

Matsing Products

Matsing 8T8R-RRH Configurations
Rev06012021



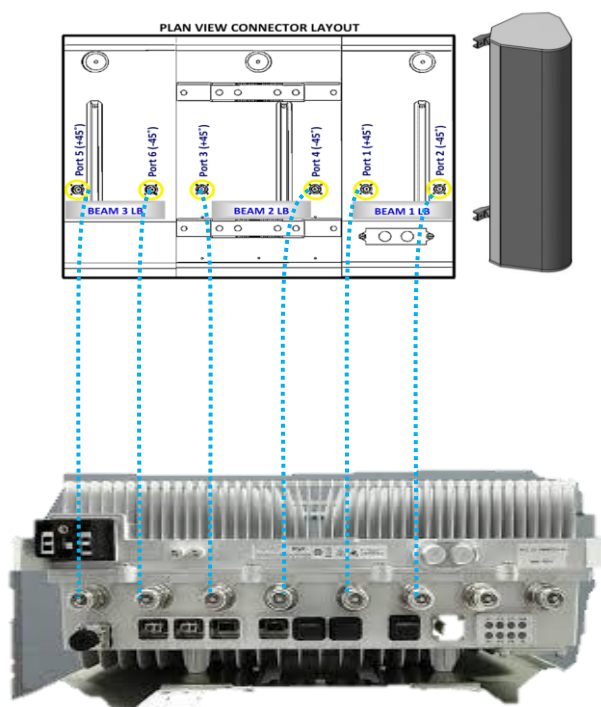
Introduction

- Matsing MBA antennas support 8T8R RRHs in multiple MIMO modes
 - 2x2
 - 4x4
- Macro Capacity Offloading Applications;
 - Matsing 3 & 4 Beam Lens Antennas offer significant capacity increase over
 - ✓ Standard 120 degrees Single Sector Panel Antennas
 - ✓ 8T8R & Massive MIMO antennas
- This presentation covers configuration options matching 8T8R radio heads with Matsing 3 and 4 beam lens antennas for three coverage options
 - 120 degrees
 - 240 degrees
 - 360 degrees
- Matsing Antenna Models used in this exercise
 - 3 Beam MBA Model #
 - MS-MBA-3-F2A3 (2x2 MIMO)
 - MS-MBA-3-F4A3 (4x4 MIMO)
 - 4 Beam MBA Model #
 - MS-MBA-4-F2A3 (2X2 MIMO)
 - MS-MBA-4-F4A3 (4X4 MIMO)

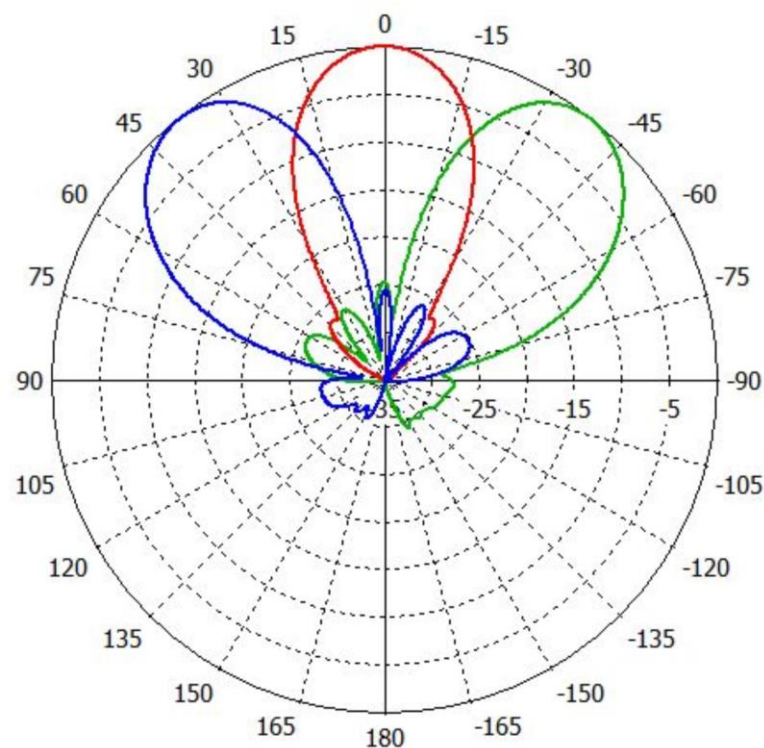
Note:

There is no wiring diagram for 64T64R Radio since it does not support external antennas.

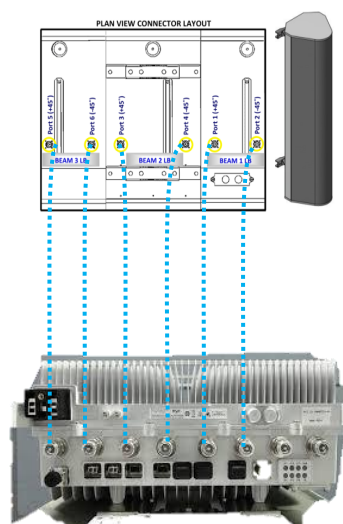
Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-3-F2A3	1	2x2	1	6	120°



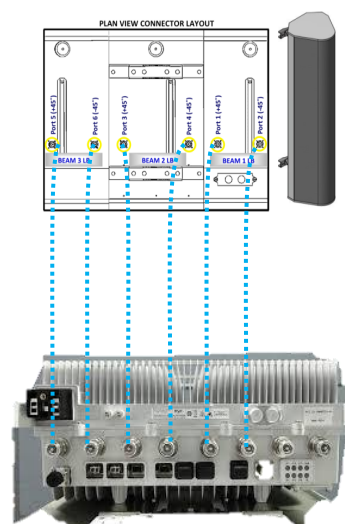
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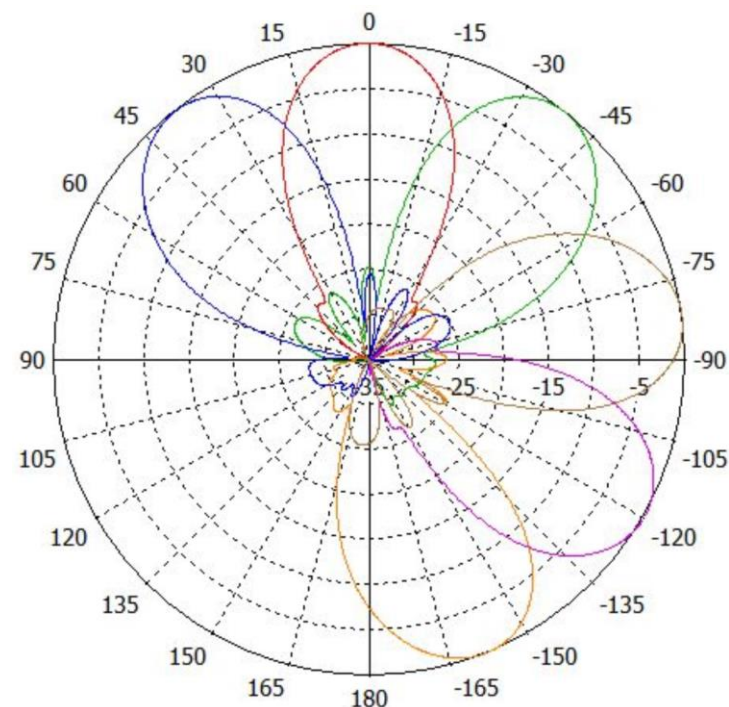
Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-3-F2A3	2	2x2	2	12	240°



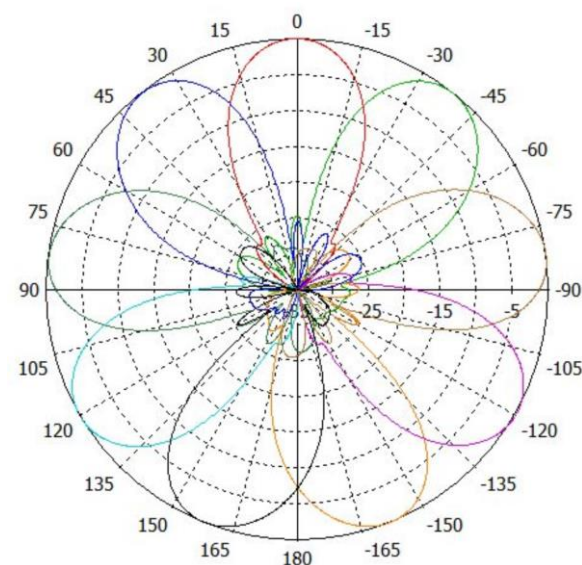
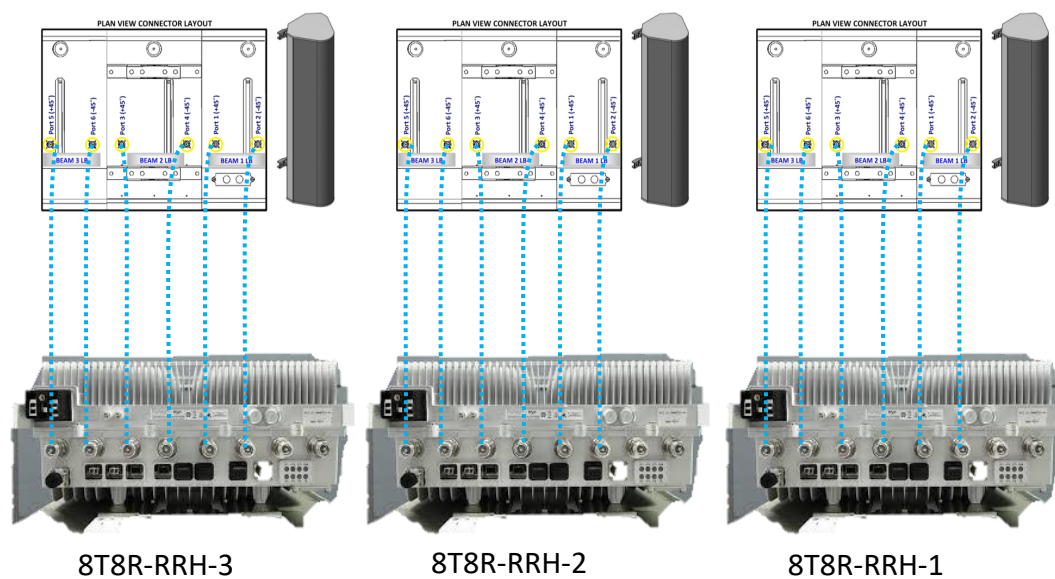
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8T8R-RRH-1



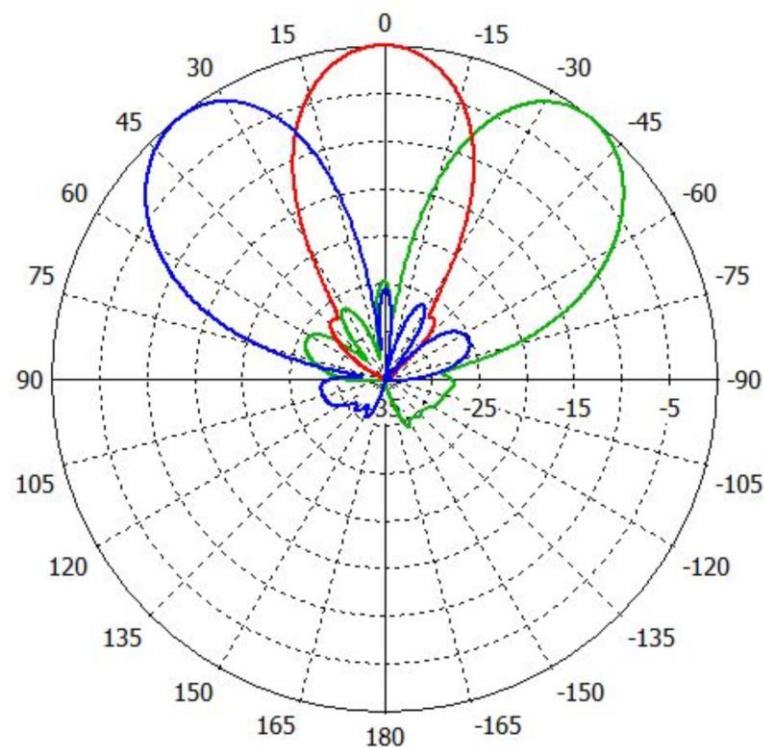
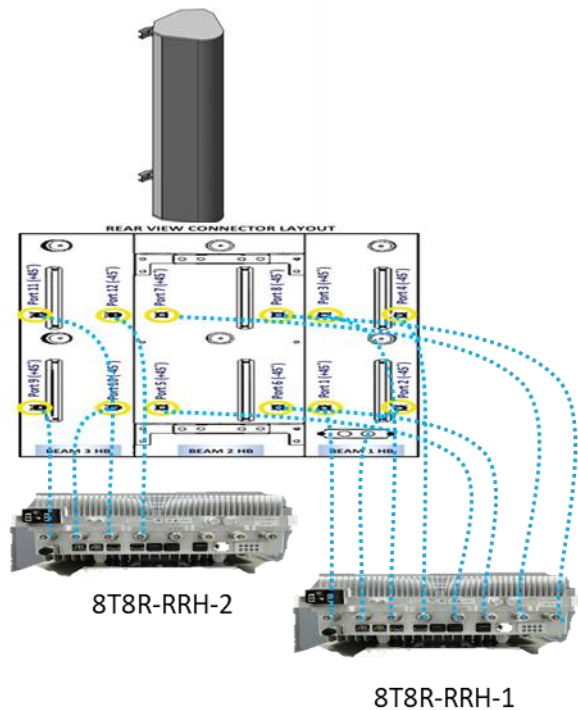
Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-3-F2A3	3	2x2	3	18	360°



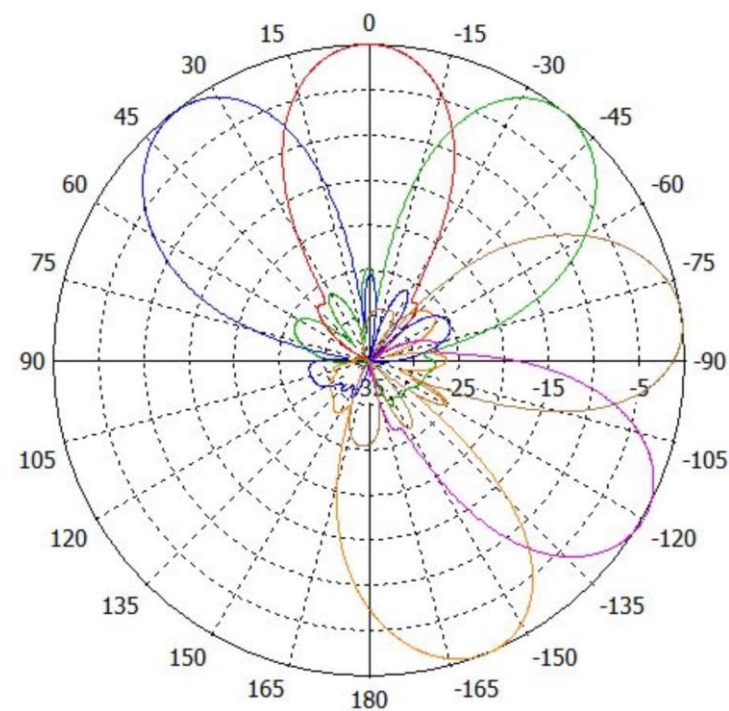
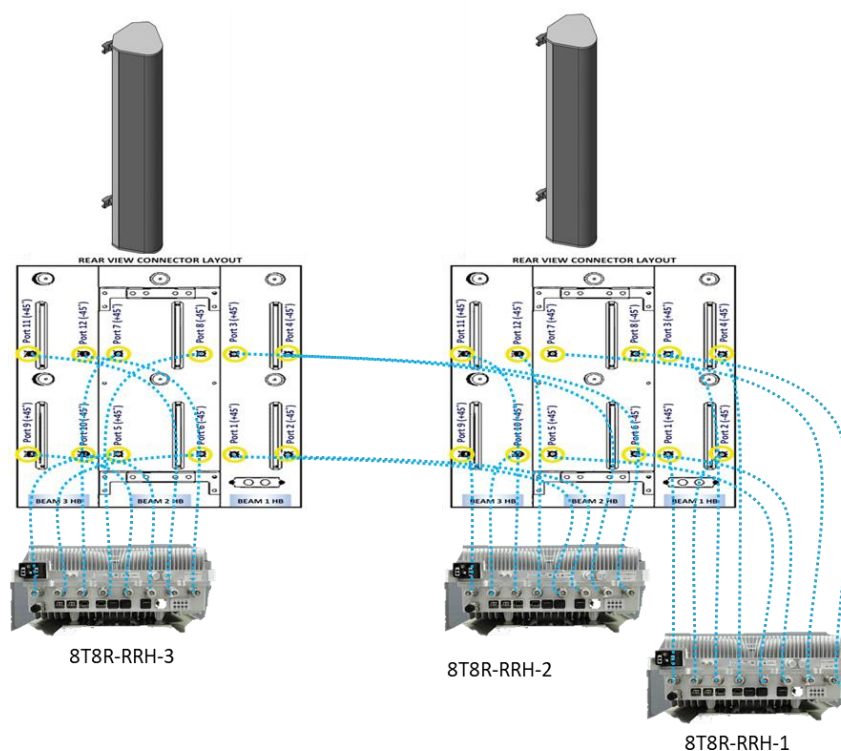
MS-MBA-3-F2A3 & 8T8R-RRH Config Table

Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-3-F2A3	1	2x2	1	6	120°
MS-MBA-3-F2A3	2	2x2	2	12	240°
MS-MBA-3-F2A3	3	2x2	3	18	360°

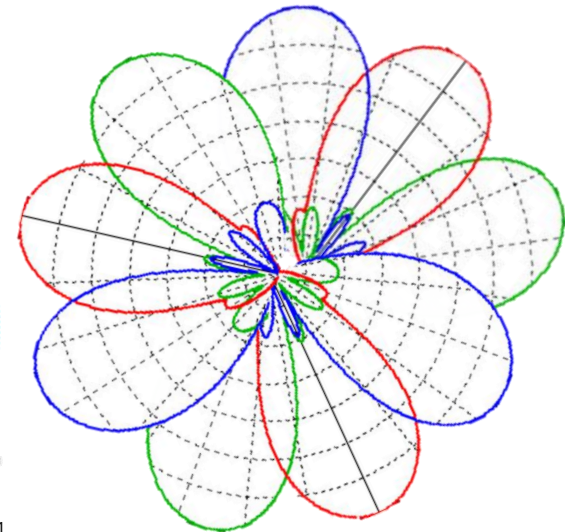
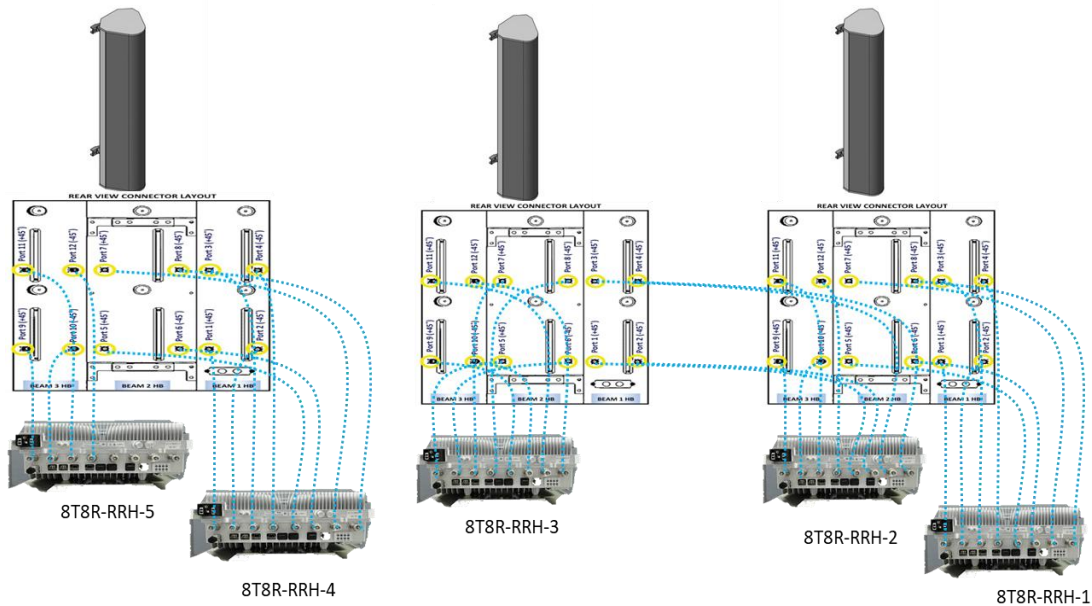
Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-3-F4A3	1	4x4	2	12	120°



Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-3-F4A3	2	4x4	3	24	240°



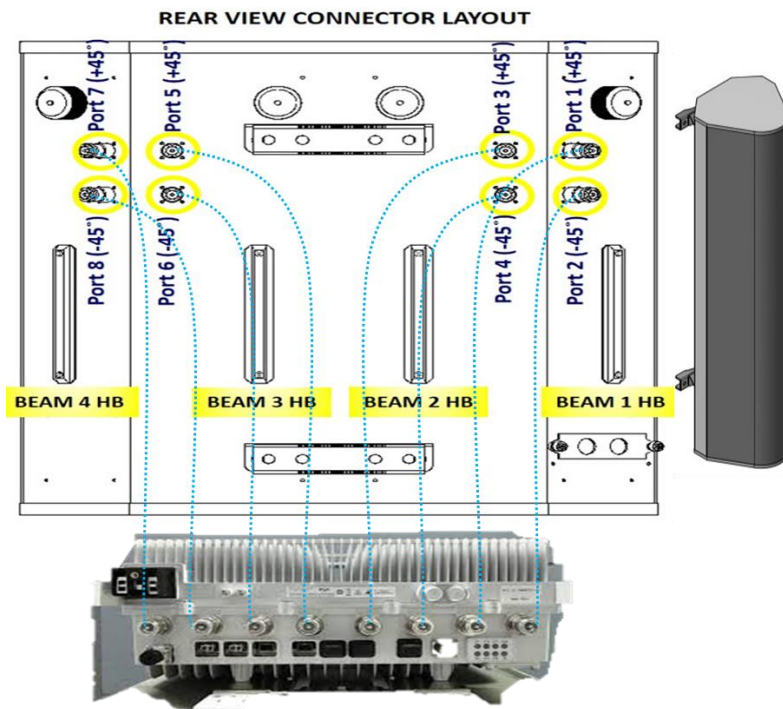
Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-3-F4A3	3	4x4	5	36	360°



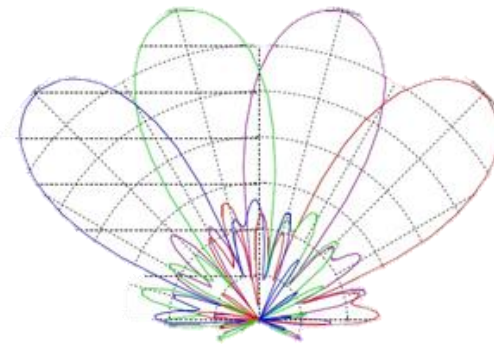
MS-MBA-3-F4A3 & 8T8R-RRH Config Table

Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R RRH Quantity	8T8R RRH Ports used	Target Coverage Area
MS-MBA-3-F4A3	1	4x4	2	12	120°
MS-MBA-3-F4A3	2	4x4	3	24	240°
MS-MBA-3-F4A3	3	4x4	5	36	360°

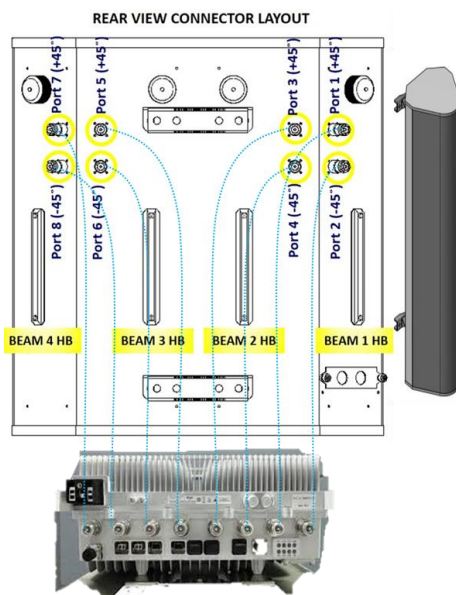
Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-4-F2A3	1	2x2	1	8	120°



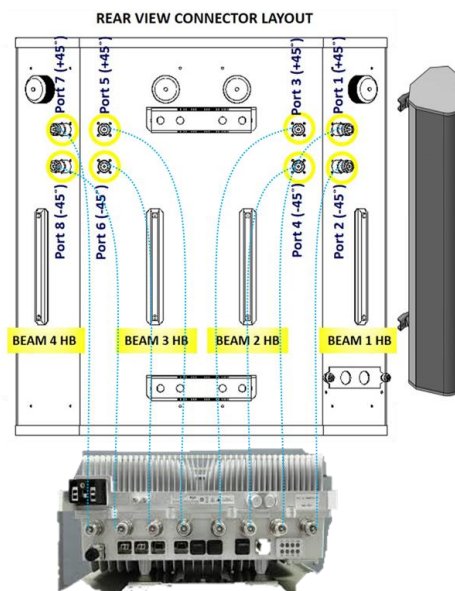
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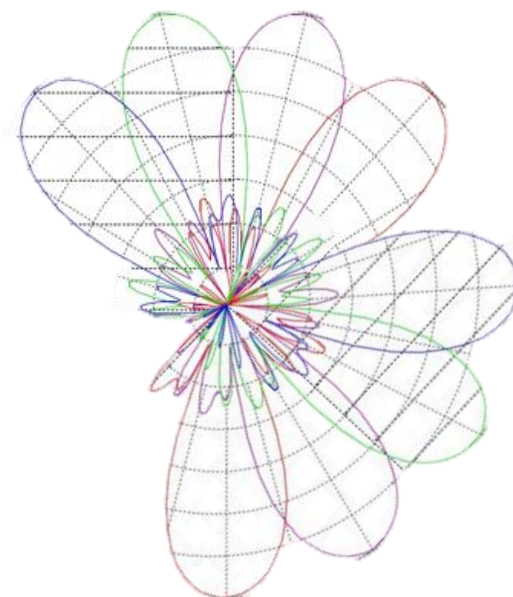
Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-4-F4A3	2	2x2	2	16	240°



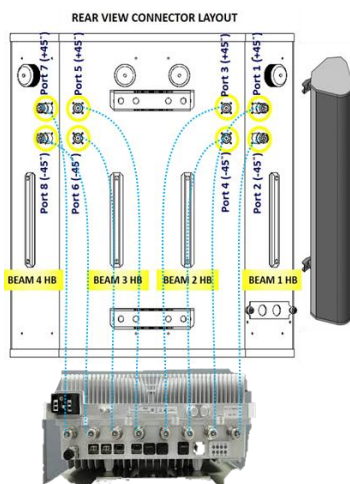
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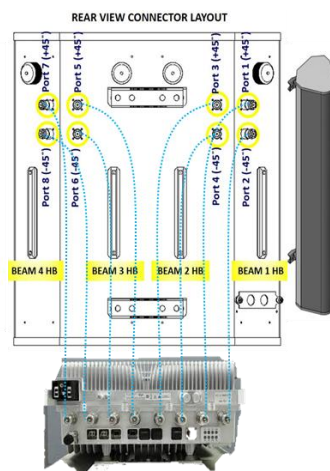
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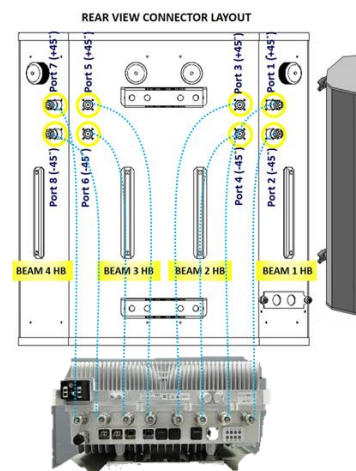
Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-4-F4A3	3	2x2	3	24	360°



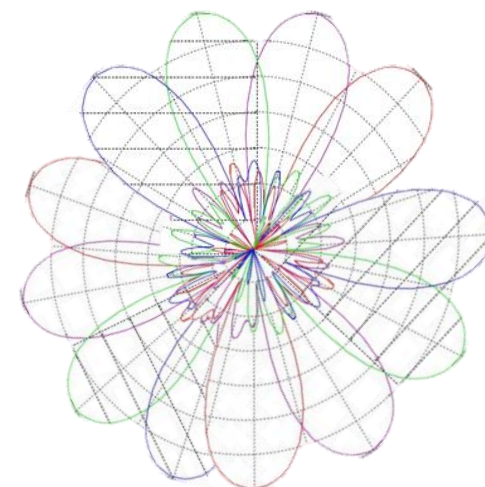
8T8R-RRH-3



8T8R-RRH-2



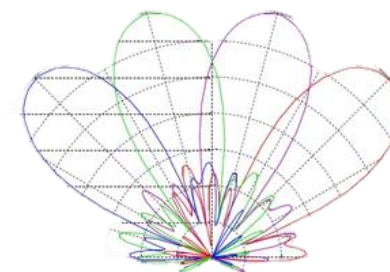
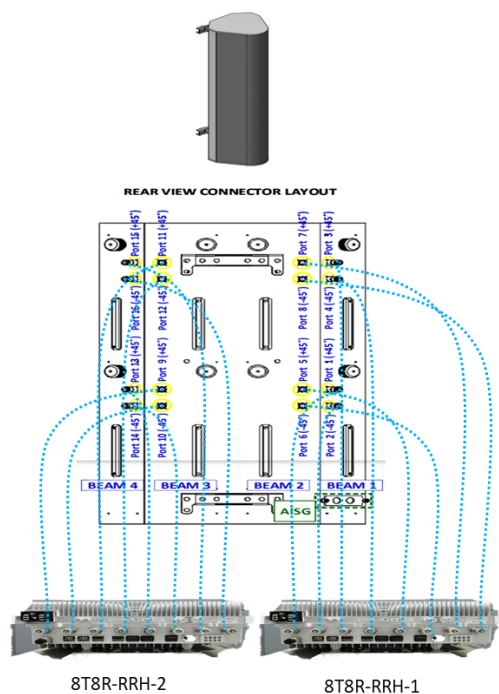
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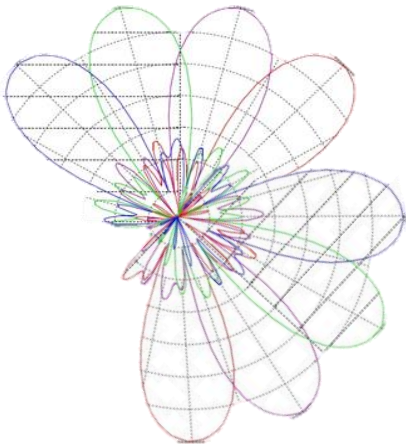
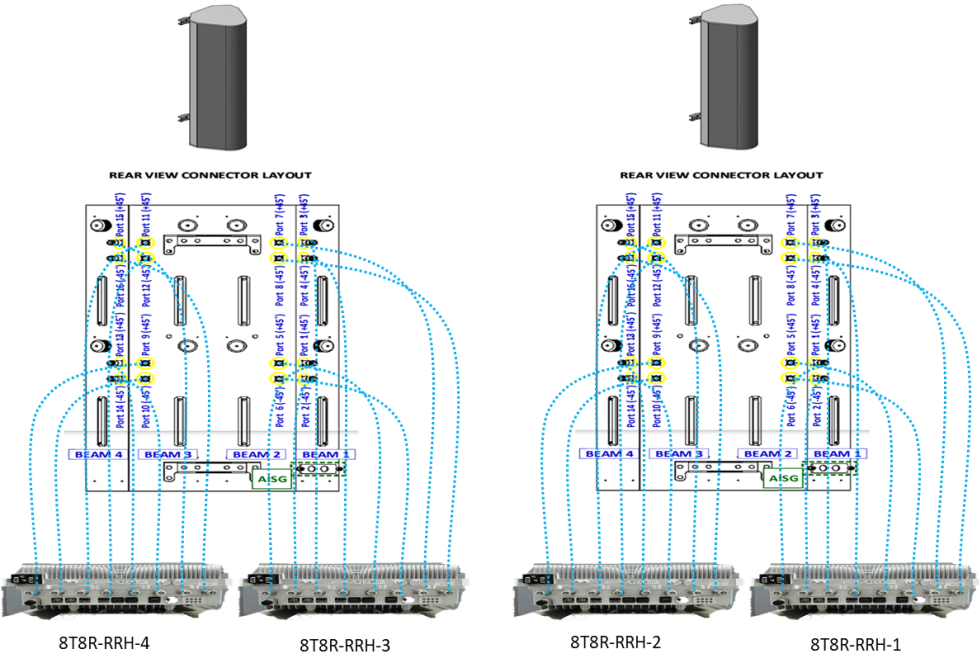
MS-MBA-4-F2A3 & 8T8R-RRH Config Table

Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R RRH Quantity	8T8R RRH Ports used	Target Coverage Area
MS-MBA-4-F2A3	1	2x2	1	6	120°
MS-MBA-4-F2A3	2	2x2	2	12	240°
MS-MBA-4-F2A3	3	2x2	3	18	360°

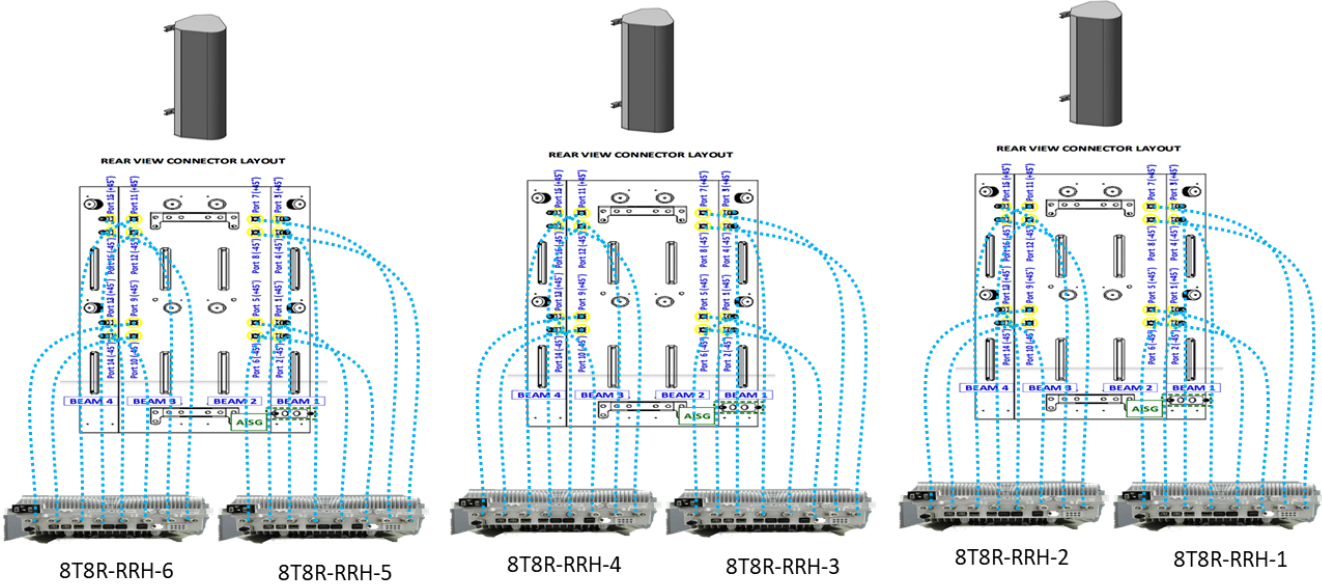
Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-4-F4A3	1	4x4	2	16	120°



Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-4-F4A3	2	4x4	4	32	240°



Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R-RRH Quantity	8T8R-RRH Ports used	Target Coverage Area
MS-MBA-4-F4A3	3	4x4	6	48	360°



MS-MBA-4-F4A3 & 8T8R-RRH Config Table

Matsing Antenna Models #	MBA Antenna Quantity	MIMO Mode	8T8R RRH Quantity	8T8R RRH Ports used	Target Coverage Area
MS-MBA-4-F4A3	1	4x4	2	16	120°
MS-MBA-4-F4A3	2	4x4	3	32	240°
MS-MBA-4-F4A3	3	4x4	4	48	360°

MBA Antenna Port Mapping to 8T8R-RRH

Matsing Antenna Models #	One Sector 120° 8T8R RRUs	Two Sector 240° 8T8R RRUs	Three Sector 360° 8T8R RRUs
3 Beam Lens Antenna 2X2 MIMO	0.75	1.5	2.25
3 Beam Lens Antenna 4X4 MIMO	1.5	3	4.5
4 Beam Lens Antenna 2X2 MIMO	1	2	3
4 Beam Lens Antenna 4X4 MIMO	2	4	6