



Multi Beam & Hybrid Family

High Capacity BSA

PROSE

Multi Beam & Hybrid Family

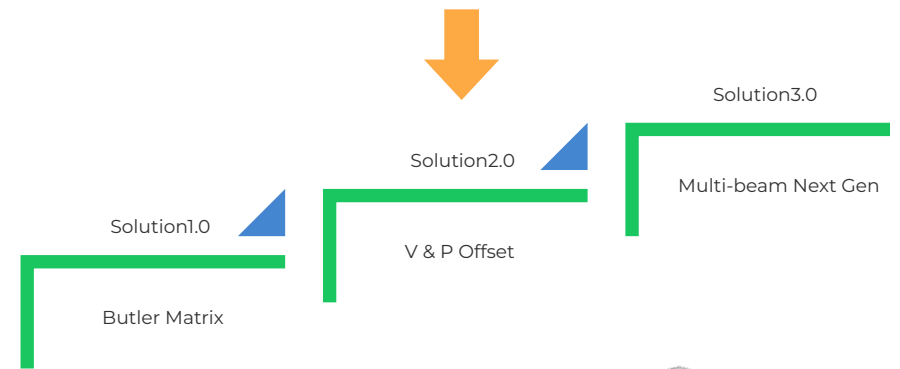
The leading designer and manufacturer in multibeam & hybrid antenna industry

- Rich variety of products
- Innovative technological solutions, numerous patents in sidelobe control, active return loss and CPR
- High volume delivery over the years, successful case study introduced
- Unique customized applications in flexible
- Fast delivery

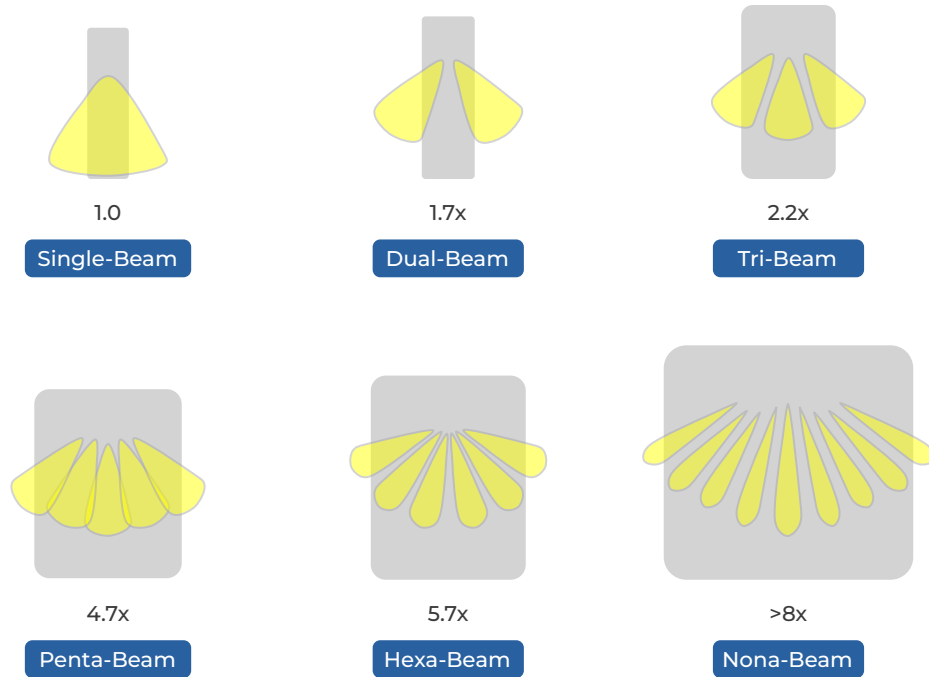


Multi Beam & Hybrid

- **Compact size** UWB butler matrix 1695-2690MHz with chip coupler to simplify butler matrix design
- **Stagger array** layout to give the excellent SLL
- **Good radiator** impedance-match to keep good beam isolation
- **Patented** design in radiator balun to great CPR
- **Simpler design** to low weight and manufacturable



Capacity Improvement of Multi-Beam



$$C = N * B \log_2 \left(1 + \frac{S}{N} \right)$$

↑ Total Capacity ↑ # of Beams ↑ Bandwidth ↑ Signal Noise Ratio

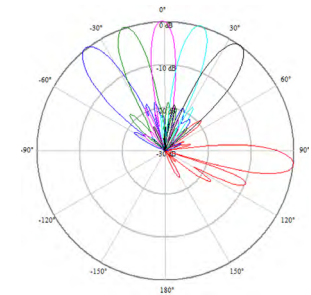
Multi-beam Antenna Improves Capacity by:

- Higher sectorization from more beams
 - Better signal-noise ratio due to higher gain and improved pattern design
- Capacity can be further increased when deploying 4T4R.

Model No. 5RMC-21

The 1st antenna in the industry of penta-beam with RET

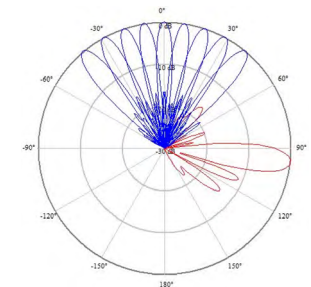
- Good beam direction, beamwidth & cross-over level
- Good coverage using for 3-sector replacing of FDD 8T8R
- Integrated network design to simple antenna, good weight & size
- Good PIM performance



Model No. 9WMB-41

Ultra-wide band nona-beam

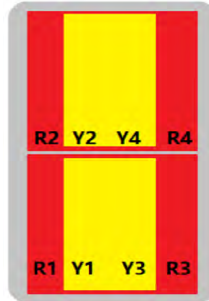
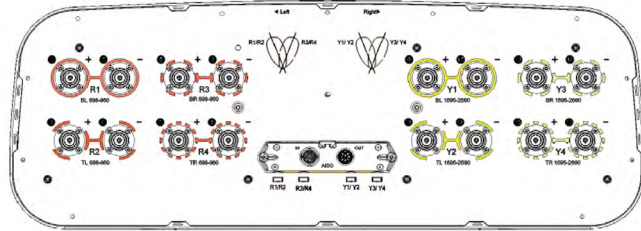
- Support 1800/1900/2100/2300/2600MHz
- Good azimuth sidelobe & cross-over level
- Compact size & lighter weight



Model No. 4G4W33ME-21

Ultra-wide band dual band dual beam 4x4

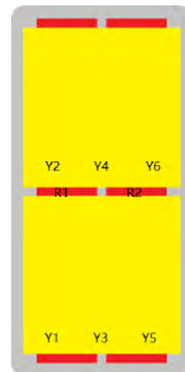
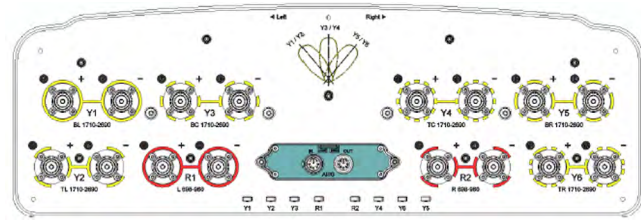
- Support low band & middle band twin beam 4x4
- Excellent decoupling design
- Good PIM performance
- Low wind load



Model No. 2G6WHF-21S

Support low band 65deg 4x4, middle band triple beam 4x4

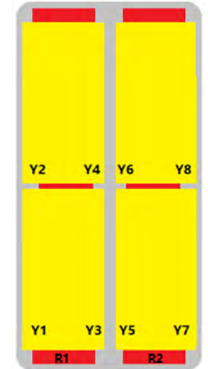
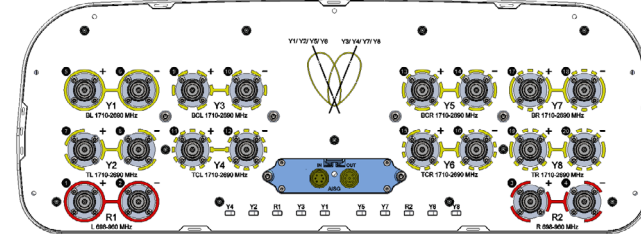
- Ultra-wide band antenna
- Good azimuth sidelobe to reduce SINR for triple-beam
- Compact size
- Good PIM performance



Model No. 2G8WHF-21

Support low band 4x4, middle band twin beam 8x8

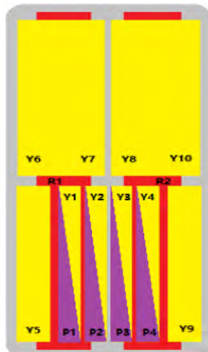
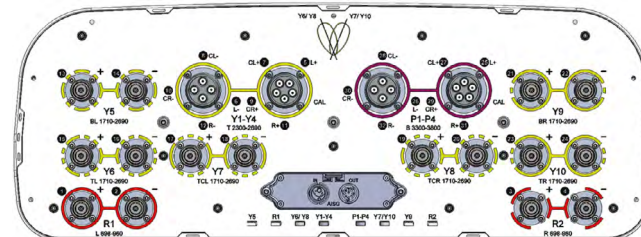
- Good twin beam azimuth sidelobe level & cross level to reduce overlapping risk
- Good decoupling
- Good PIM performance



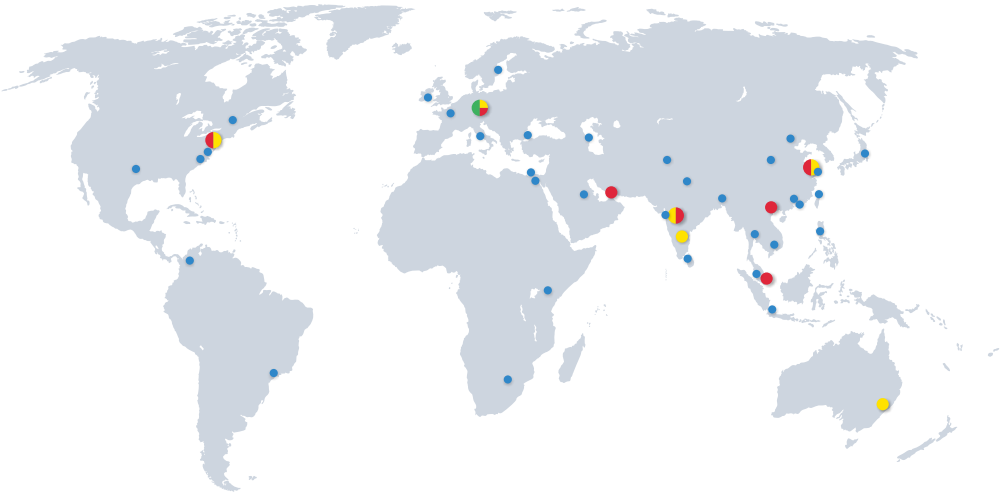
Model No. 2G2W4W4R4TAE-07

Support low band 65deg 4x4, middle band 65deg 4x4, twin beam 4x4, 2.3G&3.5G TDD

- Ultra-wide band TDD array integrating element level diplexer to support tilt independent in two sub-bands 2300-2690 & 3300-3800, independent Cal
- Support multiple operators to share site deployments
- High integrated FDD 65 + Twinbeam + TDD BF



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