



PROTREEM Passive Family

High Efficiency BSA

PROSE

PROTREETM Passive Family

PROTREETM family has evolved from single-band Generation 1.0 to multi-band Generation 2.0, with further innovation for Generation 3.0 underway. The antenna offers significant improvements in radiation and coverage efficiency, along with enhanced directivity and gain thanks to optimized beamforming technology.

Efficiency At Its Best

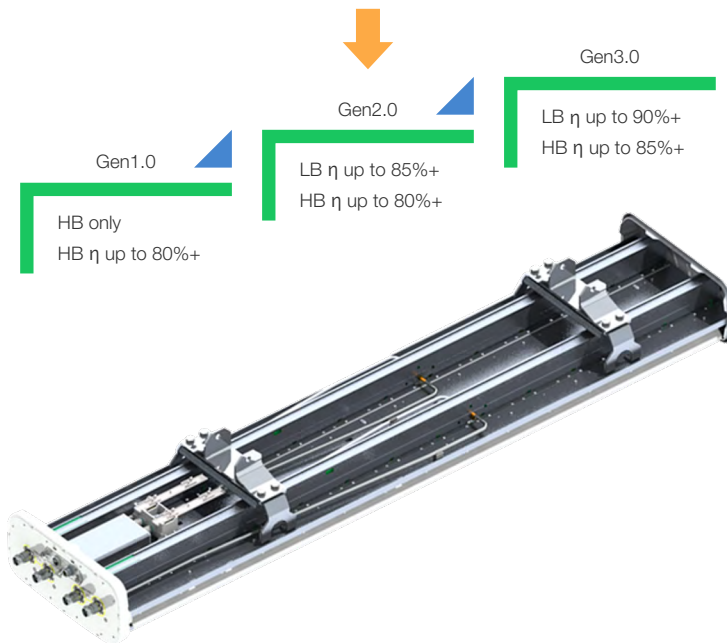
Improved RF performance

- Innovative Air Stripline Structure for lower insertion loss
- Non-phase cable to further reduce loss
- Compact P.S. to minimize dielectric loss

Enhanced Coverage Area

- Good tilt accuracy
- Improved pattern performance

High directivity with good beam shaping technology

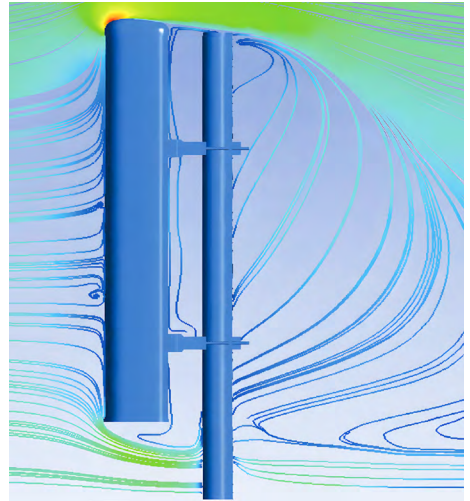


PROTREEM Passive Family Released Products

Low Windload Solution

- Patented radome technology
- Patented end cap solution
- Tight combination of accurate simulation & wind tunnel test

- Modified PP formula, recyclable
- Lower weight
- Lower dielectric constant



Simulation

Good & Stable PIM

- Less soldering joints
- Coupled connection
- Robust design
- Automatic manufacture

Low Carbon Design

- Mounting Kits
Hot-dip galvanizing to AL-extrusion
Recycled plastic optional
- Radome & endcap
Recycled plastic
- Soldering joints 25~70% ↓
- Phase shifter cavity
Non-plating
- Manufacture automation
Efficiency 40% ↑



Tunnel Test

PROTREEM BSA OPEX & CAPEX Reduction

- Take Gen 1 as example



PROTREEM-2H



RF efficiency & coverage efficiency improvement



Coverage increase **20%~50%**



Tower number reduced **20%**



RRUs & other equipments reduce **2~3 times**



Site rental expense savings due to site no. decreased



Product failure rate reduced 50%+



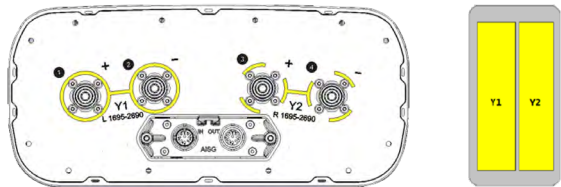
Power consumption was reduced by 25% around to save electric costs tremendously



System capacity improved due to very good & stable PIM performance

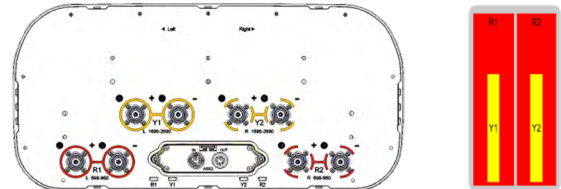
Model No. 2WC-71-H

- 2x(1695-2690) MHz
- Integrated RET (AISG 2.0 Compliant)
Field Exchangeable
- 4.3-10 Connectors
- Low Windload Radome
- 1.3m Released



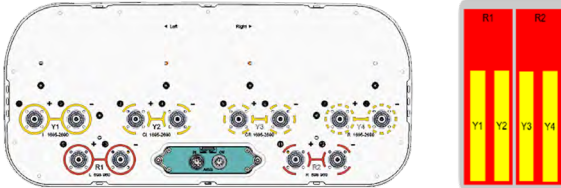
Model No. 2G2WD-21T-H

- 2x (617-894) + 2x (1695-2690) MHz
- Integrated RET (AISG 2.0 Compliant)
Field Exchangeable
- 4.3-10 Connectors
- Low Windload Radome
- 2.4m Released



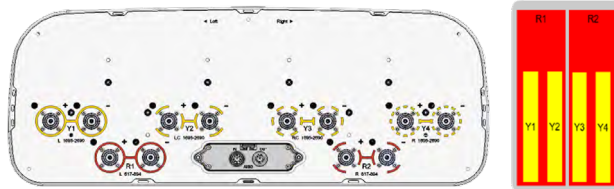
Model No. 2G4WD-21SR-H

- 2x(698-960) + 4x(1695-2690) MHz
- Integrated RET (AISG 2.0 Compliant)
Field Exchangeable
- 4.3-10 Connectors
- Low Windload Radome
- 2m Released

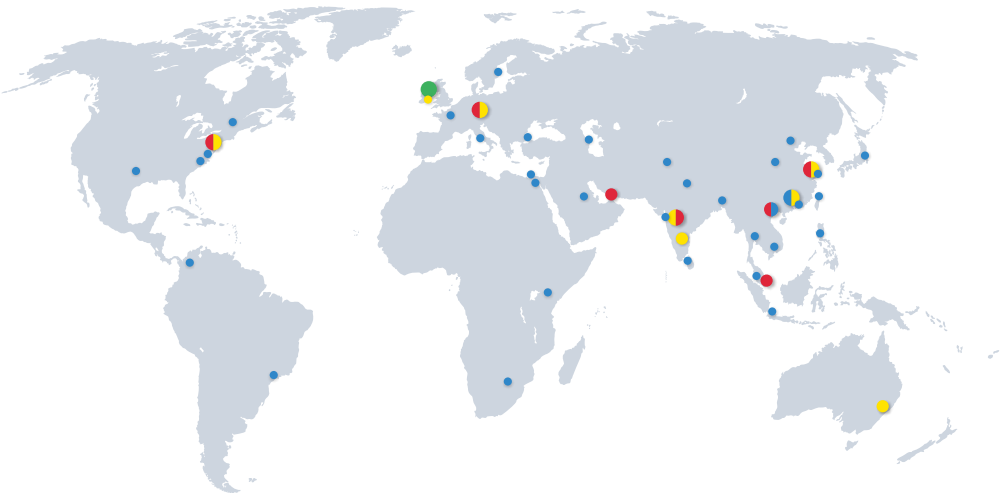


Model No. 2D4WE-71-H

- 2x (617-894) + 4x (1695-2690) MHz
- Integrated RET (AISG 2.0 Compliant)
Field Exchangeable
- 4.3-10 Connectors
- Low Windload Radome
- 2.4m Released



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