

The Gen4 Taurus Platform

Engineering the Future of Network Efficiency and Sustainability

A Revolution in RF Efficiency

The Gen4 Taurus platform eliminates the primary sources of energy loss found in conventional antennas through a revolutionary cable-free, highly integrated architecture.



92%

Reduction in Cables

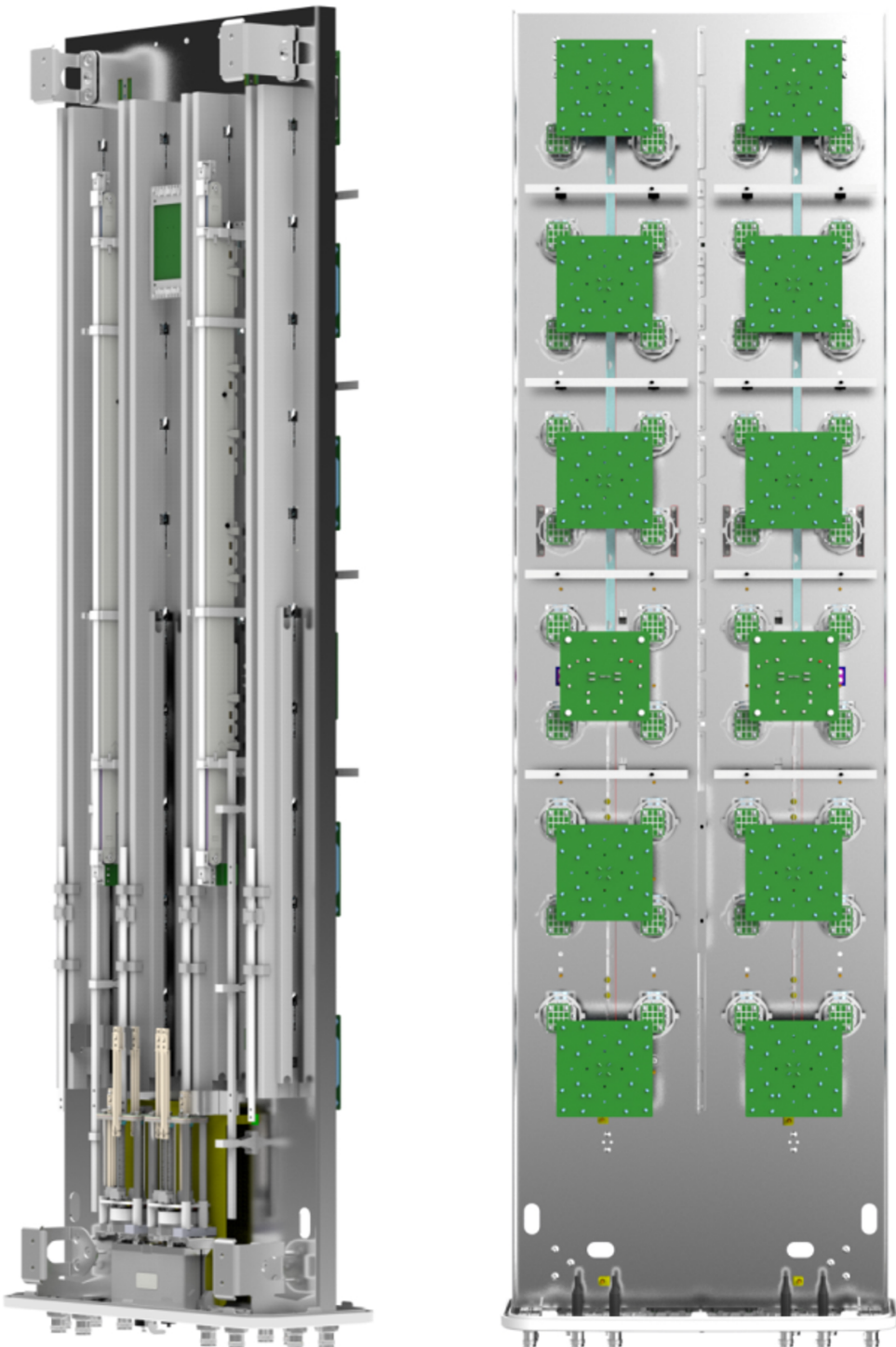


64%

Reduction in Solder Points

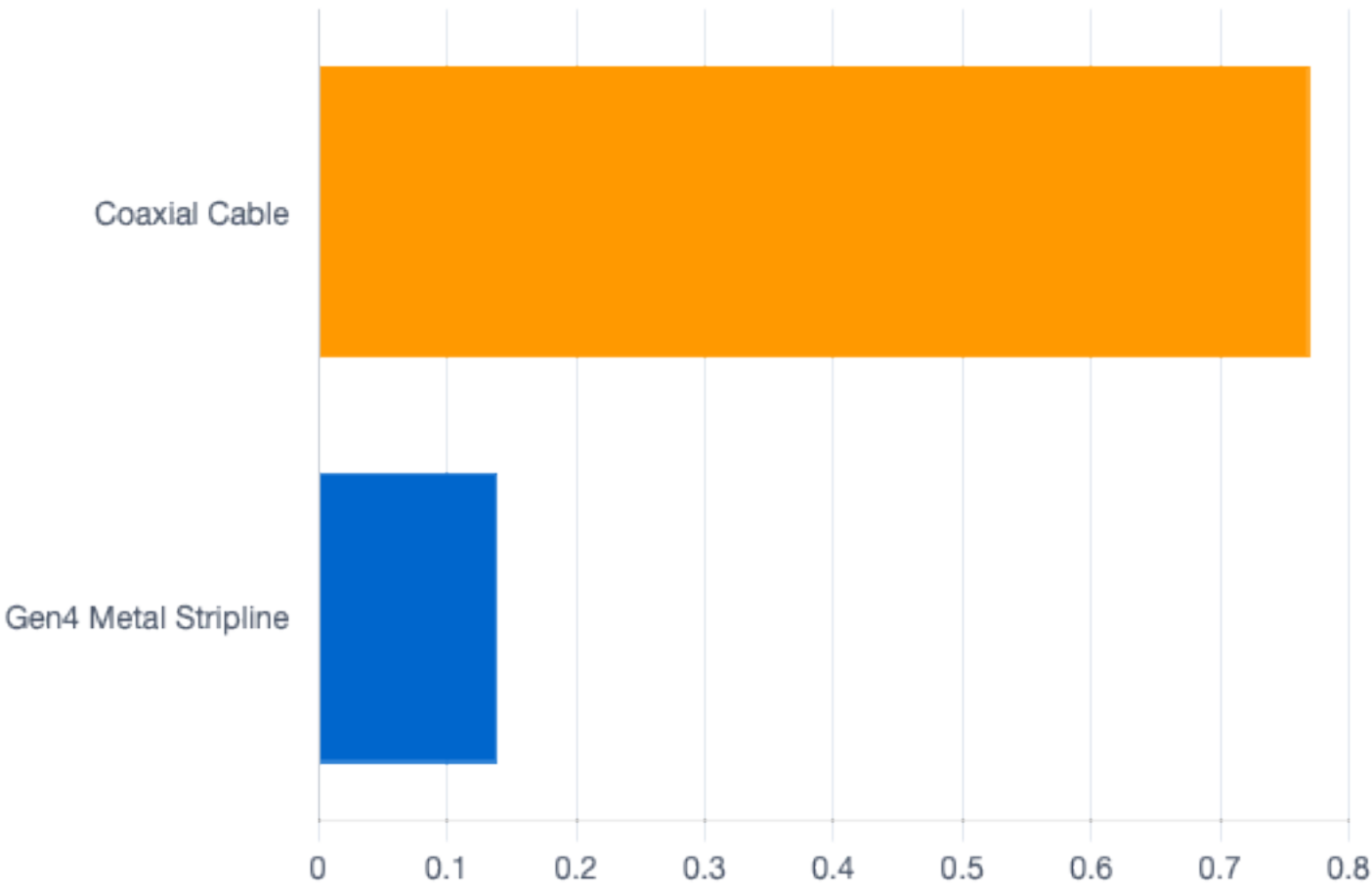
Fully Integrated Cable-Free Design

Gen4.b Taurus employs a fully integrated, cable-free metal stripline design for all bands, ensuring minimal loss and superior structural stability.



Minimized Signal Attenuation

The platform's Metal Stripline architecture significantly lowers signal loss compared to traditional coaxial cables, boosting efficiency.

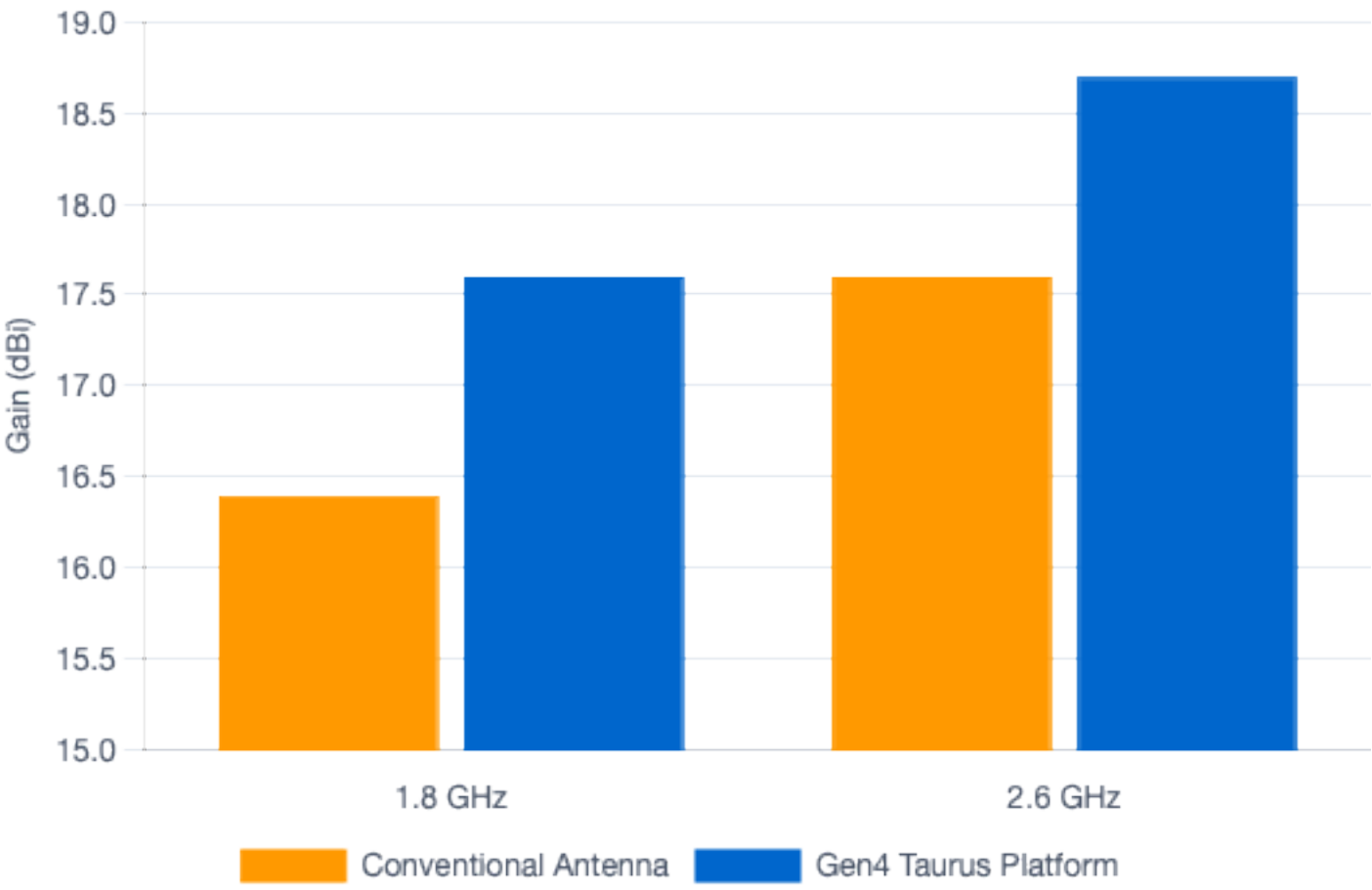


From Efficiency to Performance

Lower internal loss directly translates into superior real-world performance, delivering stronger signals and higher data throughput.

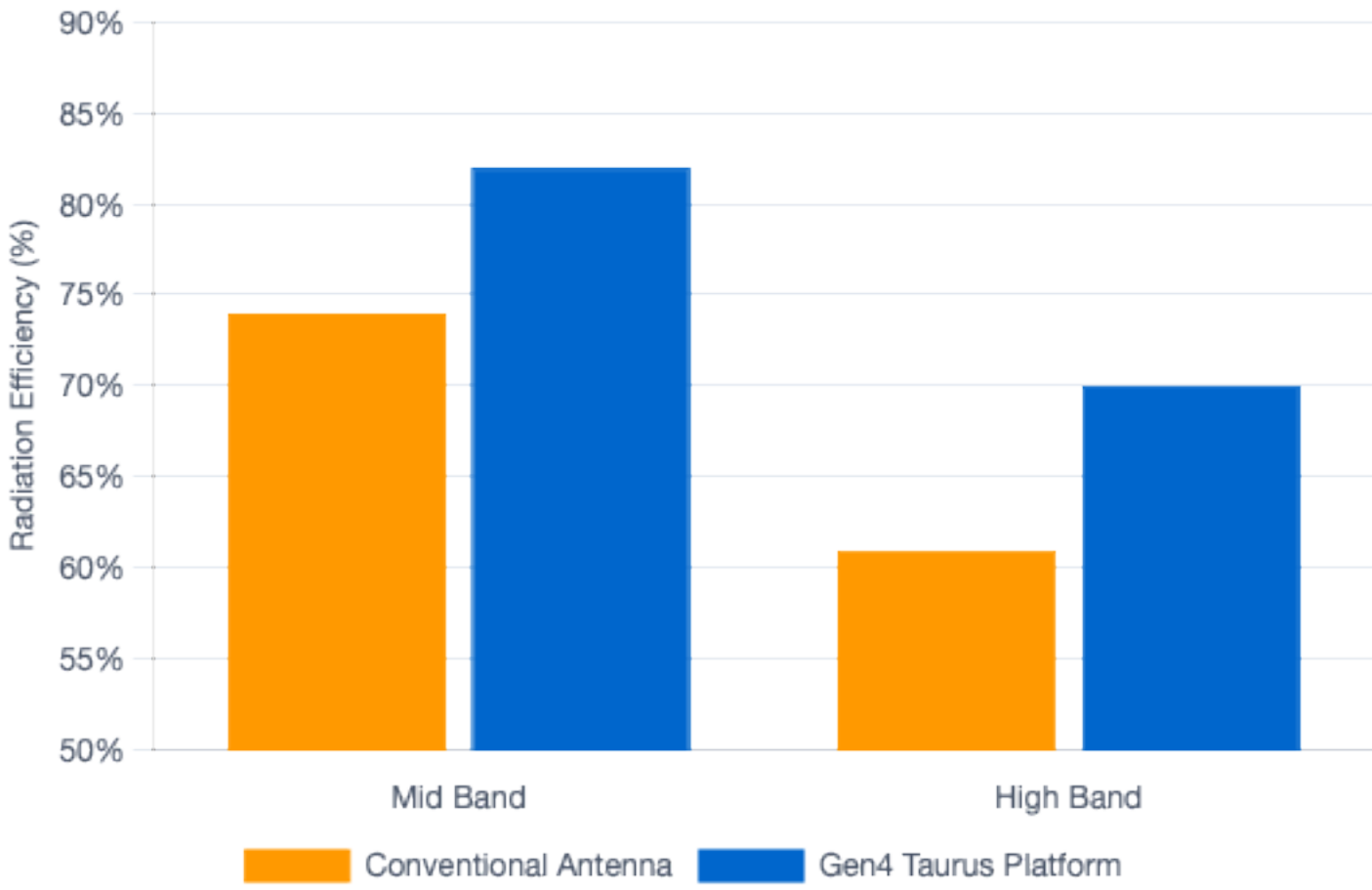
Antenna Gain Increase

Gen4 Taurus achieves up to 0.5 ~1.5 dBi higher gain, extending coverage and improving signal quality at the cell edge.



Radiation Efficiency Boost

With efficiency exceeding 85%, more of the transmitter's power is converted into useful radiated signal for users.

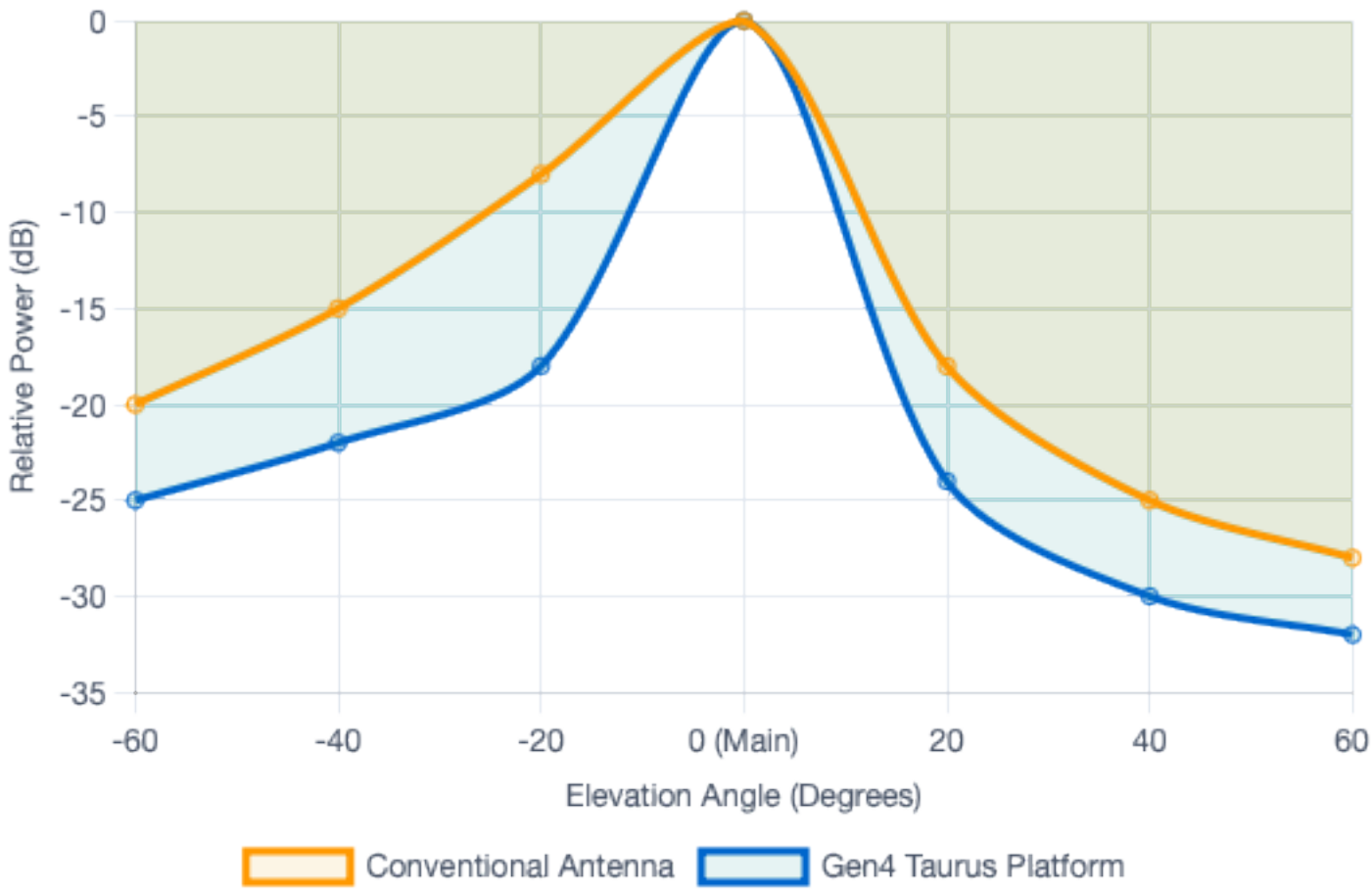


Mastering Beam Efficiency

The platform's precision engineering and design ensures that radiated power is concentrated only where it's needed, maximizing spectral efficiency and minimizing interference.

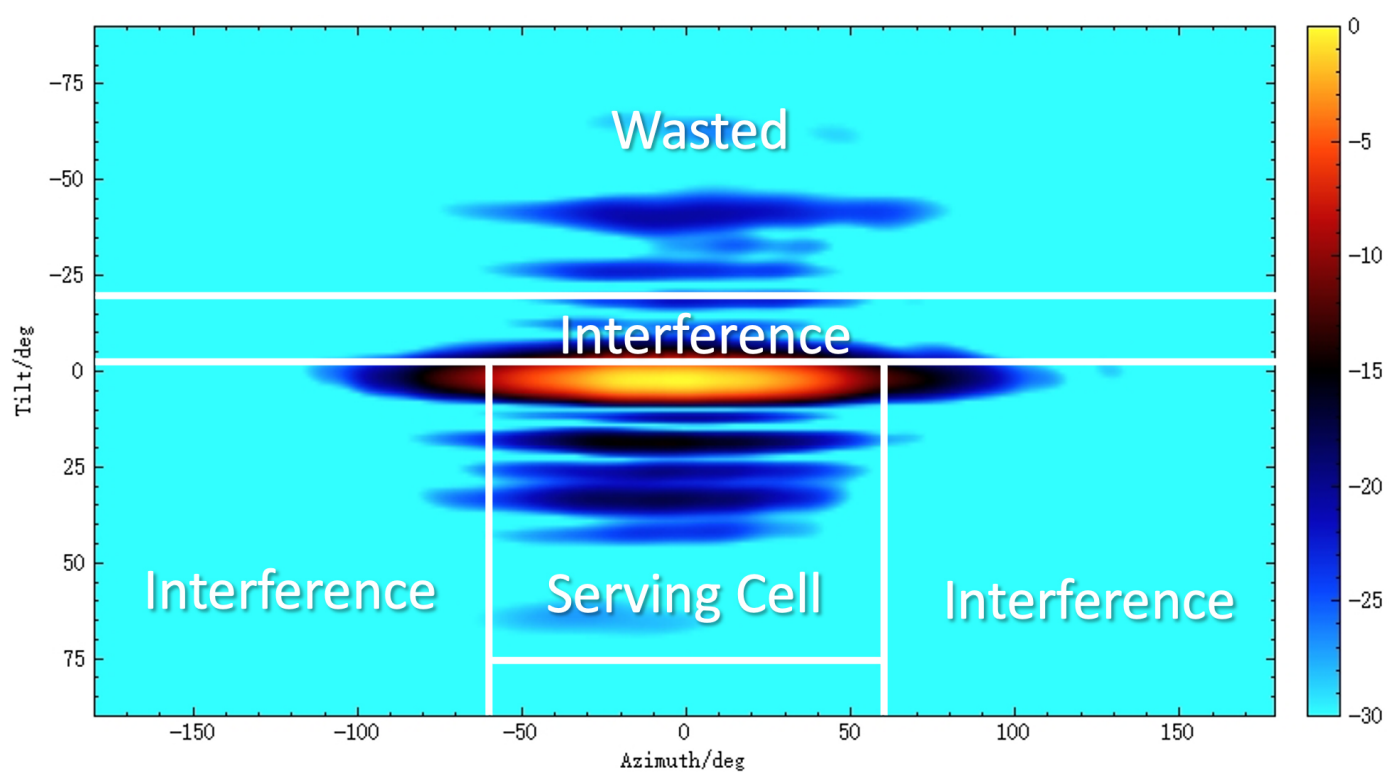
Superior Sidelobe Suppression

Industry-leading Upper Sidelobe Suppression (USLS) reduces energy wasted skyward and mitigates interference with adjacent cells.



Optimized Sector Efficiency

A focused beam means a stronger signal for users within the sector and a cleaner RF environment for the entire network.



The Operator's Advantage

Gen4 Taurus delivers tangible economic benefits, reducing both Capital and Operational Expenditures.



18%

Weight Reduction

Simplifies logistics and speeds up installation.



33%

Wind Load Reduction

Minimizes tower structural requirements and costs.



20%

CAPEX Optimization

Fewer sites needed to achieve the same coverage goals.



25%

OPEX Reduction

Lower site energy consumption and reduced maintenance.

A Commitment to Sustainable Innovation

Technological leadership and environmental stewardship are inseparable. Gen4 Taurus integrates sustainability from materials to manufacturing.



Advanced GFRPP Radomes

Utilizes lighter, more durable, and fully recyclable composite materials, eliminating non-recyclable FRP waste.



Plating-Free Manufacturing

Proprietary processes avoid chemical electroplating, preventing heavy metal pollution and saving water.



Precision Laser Welding

Replaces traditional soldering with a strong, reliable, and lead-free process for enhanced product longevity and safety.