



Antenna on Platform

UHF to Ka-band

Custom platform

Final performance optimization

Antenna Performance Optimization

ANYWAVES© designs and manufactures high-performance miniaturized antennas for CubeSats. Moreover, ANYWAVES© develops a portfolio of services around electromagnetic and antenna domains.

Antenna performance on small platforms, like CubeSats, can be dramatically lowered by other equipment (solar panels, payload instruments, other antennas etc...).

Final performance could thus yield results that differ from the initial antenna specifications with a significant degradation of the radio frequency link.

However, ANYWAVES© offers to manage this issue through a:

- **Simulation Campaign**

ANYWAVES© analyzes and optimizes the location of the antennas on specific platforms based on simulations using professional electromagnetic software.

ANYWAVES© provides different recommendations for your antenna placement on the platform, along with the final antenna performance. Coupling analysis between different antennas is also part of our know-how.

- **Test Campaign**

With or without a simulation campaign, it is important to measure final antenna radiation performance. ANYWAVES© offers to validate this through a test campaign.

Placed on your real satellite or a representative mock up, we measure all antenna performance : adaptation, radiation pattern, polarization, etc...

Benefits :

- Final performance characterization
- Optimization of your antenna placement
- Guarantee of your final performance

