



Capacity & coverage✓ Radiation pattern efficiency✓
End-to-end performance✓ Power consumption✓ Network integration✓

Decide with confidence.
Co-create your special-case mMIMO
at Europe's Open RAN
Antenna Lab

5G networks need more than standard solutions

An array of special cases

Looking at the 5G active mMIMO antennas on the market today, there is plenty of choice for dense urban areas and hot spots.

But 5G active antennas have great potential for other city uses, rural areas, private networks, stratospheric connectivity, and more special cases.

The trouble is that standard mMIMO antennas aren't appropriate for these applications

For effective 5G in these use-cases, a tailored antenna is required.

Advantages over standard antennas

Bring your requirements to our Open RAN Lab and we'll develop a solution that will satisfy your customers and differentiate you from competitors.

Compared to standard solutions, we can help you achieve:

- The right capacity and coverage
- Lower power requirement and better power efficiency through enhanced radiation pattern control
- Longer lasting antennas and less use of raw materials



For special cases including private networks, rural areas and stratospheric connectivity, get the solution you need at our Open RAN Antenna Lab



Documented proof

To help you decide with confidence, we can provide the following testing and documentation on your antenna:

- **Total cost of ownership:** Capex requirement and opex input
- **Sustainability:** Lifecycle assessment (LCA) or environmental product declaration (EPD)
- **Integration:** Interoperability and compatibility of equipment according to O-RAN standards
- **Performance:** 3D radiation pattern, energy consumption, and over-the-air testing

Move your project forward

By creating the optimal mMIMO for your situation, our lab can help you deliver on the potential of 5G.

Get in touch by emailing us at info@amphenol-antennas.com or complete the [contact form on our website](#).

Committed to Open RAN

As a partner to the European communications industry for many decades, you get to work with an organization fully committed to investing in active and passive antenna innovation. Backed by the \$12bn Amphenol corporation.

We are active contributors to the Open RAN community:

- Official supplier to Orange's Open RAN Integration Center in France
- O-RAN Alliance and Next Generation Mobile Network Alliance
- Collaborations with network software developer Amarisoft and testing technology provider Keysight



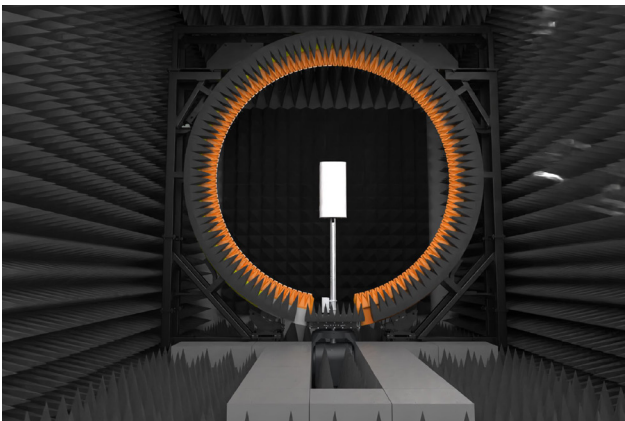
Unsurpassed antenna expertise

Antennas are our core business. For 75 years, our engineering teams have designed antennas at the forefront of innovation.

Our innovations like integrated RET and low wind load are now industry standard, and today we lead the way with upgradeable antenna arrays.

Working with our Open RAN Antenna Lab takes you to the heart of our R&D team.

When you're ready to place your order, we can manufacture your antenna in one of our European factories - securing short transportation time and lower transportation emissions compared to more distant locations.



Access our state-of-the-art testing chamber

Other Open RAN services



Test your full Open RAN setup

If you're unsure about the interoperability, performance, and troubleshooting of your Open RAN setup, our lab can get you the answers you need.

[Find out more](#)