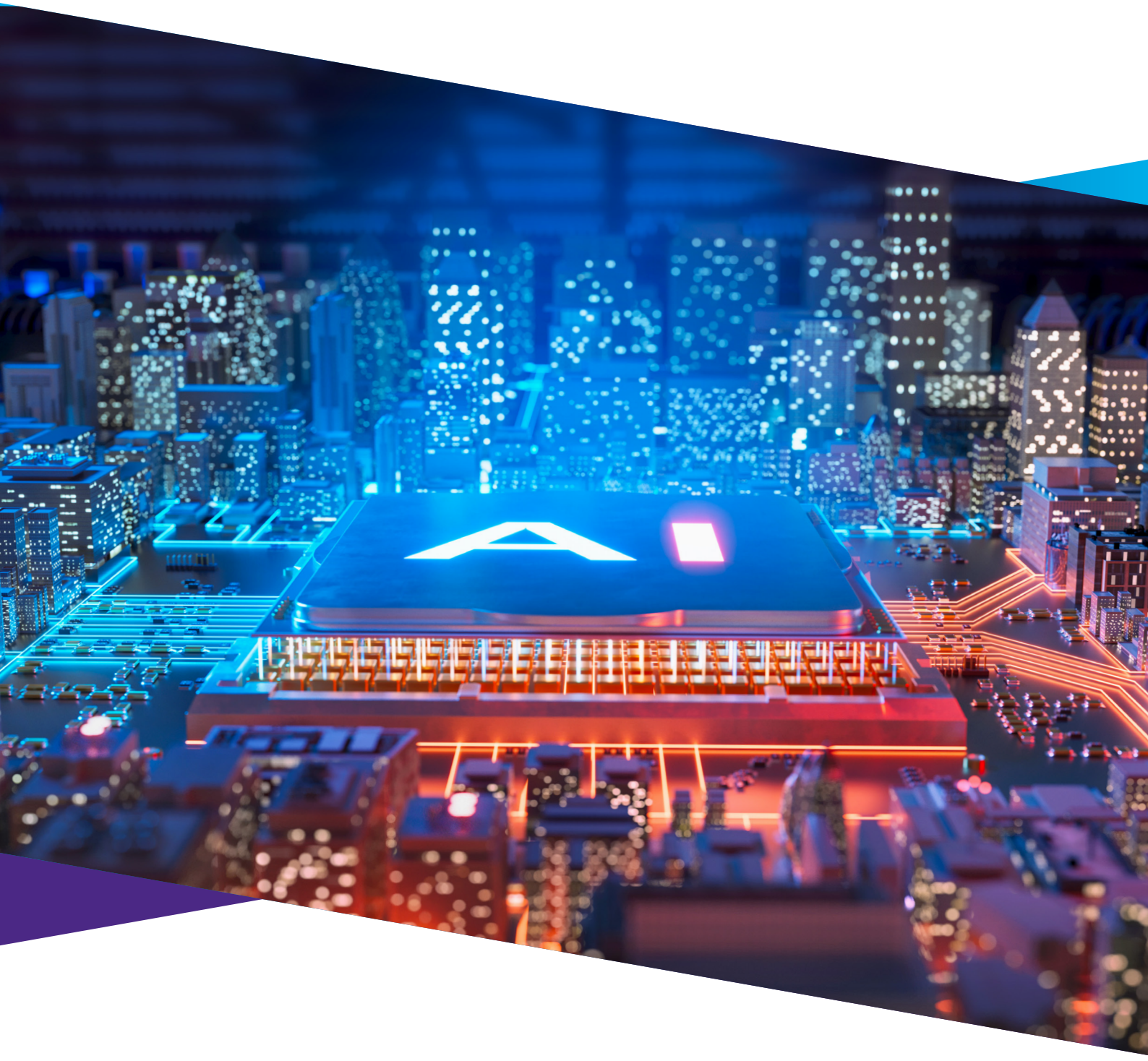


NITRO Wireless AI Testing Solutions

Trust Your AI Network. Trained, tested, and validated by VIAVI.



AI in the RAN: High Stakes, High Complexity

Modern networks are evolving fast and AI is key to managing that complexity. But deploying AI at scale isn't simple. Common challenges include:

- Training data that adequately reflect real-world conditions
- Fragmented, limited diversity or incomplete datasets
- Manual testing that can't match AI's speed or evolution
- Meeting strict timing, reliability, and KPI targets

Smarter Networks with AI

VIAVI provides the tools to validate, optimize, and scale AI across the full network lifecycle, from AIRtoCore™.

We take the uncertainty out of AI deployment with:

- AI in your network: Validate AI-native components for performance, security, and scalability in the lab.
- AI for productivity: Automate testing, accelerate rollout, and deliver with confidence

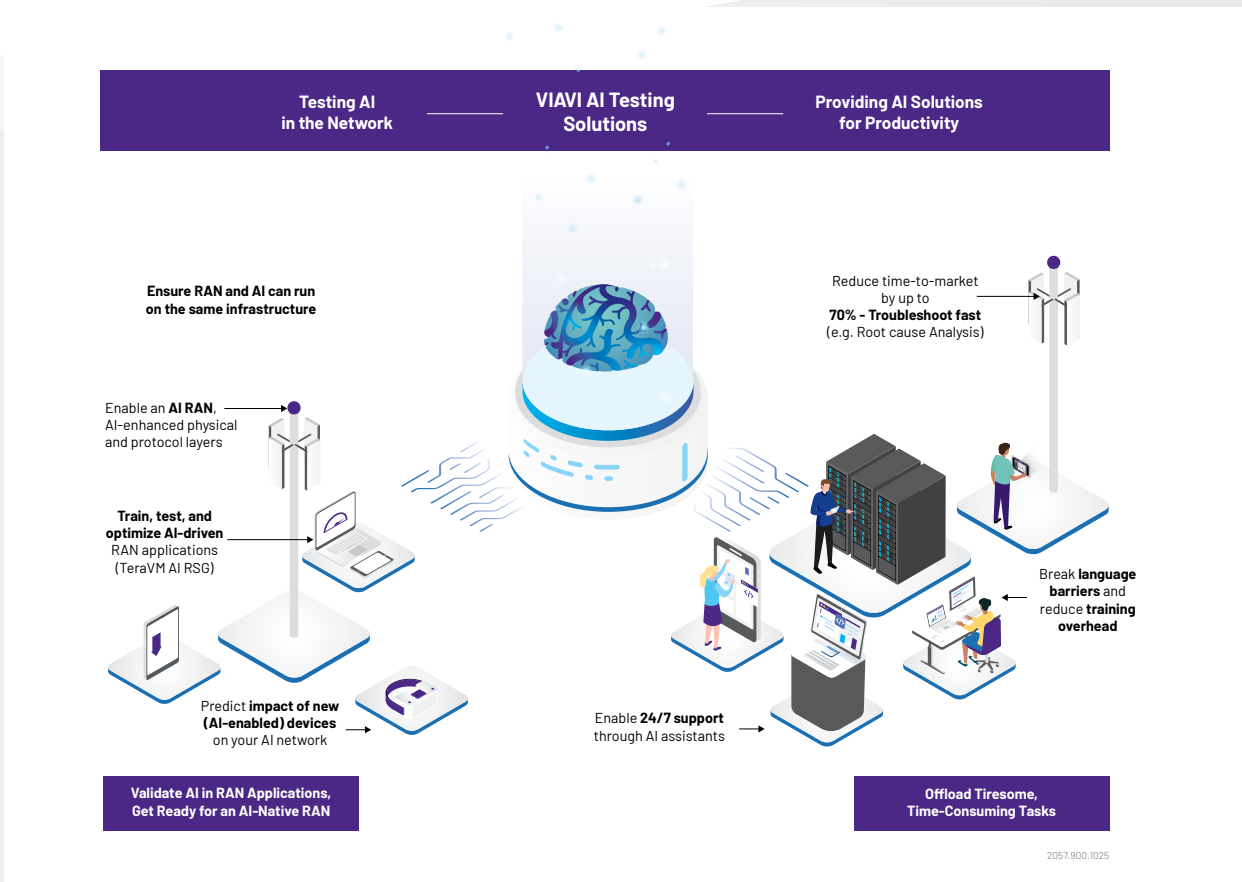


Figure 1. VIAVI AI Testing Solutions



Testing AI in Your Network

Whether AI runs or is accessed on the gNodeB, device, or cloud-native RIC (xApps, rApps, aApps), VIAVI ensures your AI works, interoperates, and delivers value.

Key Solutions:

- **AI RAN Scenario Generator (RSG):** Trains RIC, x/rApps with real and synthetic data, and auto-scores results.
- **TM500:** End-to-end RAN protocol testing for AI-enabled interfaces.
- **Network Digital Twin:** Combines AIRtoCore™ data, ray tracing, and field data for realistic, scalable simulations.
- **Quality datasets:** Large-scale RAN and UE data from field measurements and 3D channel models.
- **AI-native RAN testing:** Pioneering neuromorphic architectures and AI-driven PHY layer innovation.

AI Solutions for Productivity: AI Test Experts

AI doesn't replace engineers, it makes their work faster, smarter, and more efficient.

In the Lab:

- **VAMOS:** AI-driven orchestration of automated test workflows across multi-vendor setups.
- **AI Knowledge Engine:** 24/7 multilingual assistant trained on VIAVI manuals for instant expert support.
- **AI Productivity Tools:** Speed up testing and test failure root cause analysis. Essential to identify components at fault in multi-vendor networks.

In the Field:

- **OneAdvisor 800 Wireless AI Expert:** Automates troubleshooting, guides operation, and adapts to new environments.
- **OneAdvisor 800 RF Viewer:** Augmented reality visualization of RF signals in real time.

Towards an AI-Native RAN

The VIAVI 6G Forward program is validating the next wave of AI-native innovations:

- Neural transmission and AI beam management
- Neuromorphic receivers that cut energy use by 9x
- Adaptive modulation, NOMA, and Extreme MIMO optimization

Bridging the AI Gap

By connecting lab-to-field testing through AI-calibrated environments, digital twins, and automated workflows, VIAVI helps you reduce risk, accelerate innovation and build trust in your AI.

You can trust your AI when VIAVI puts it to the test.

Learn more about our [AI Testing Solutions](#)





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