

# Design, Test, Optimize and Operate Non-Terrestrial Networks



# ONE NTN PORTFOLIO, FROM LAB TO LAUNCH

Ensure seamless, reliable, and high-performance NTN connectivity with VIAVI's comprehensive solutions – designed to assess, validate, and optimize every stage, from lab to deployment.

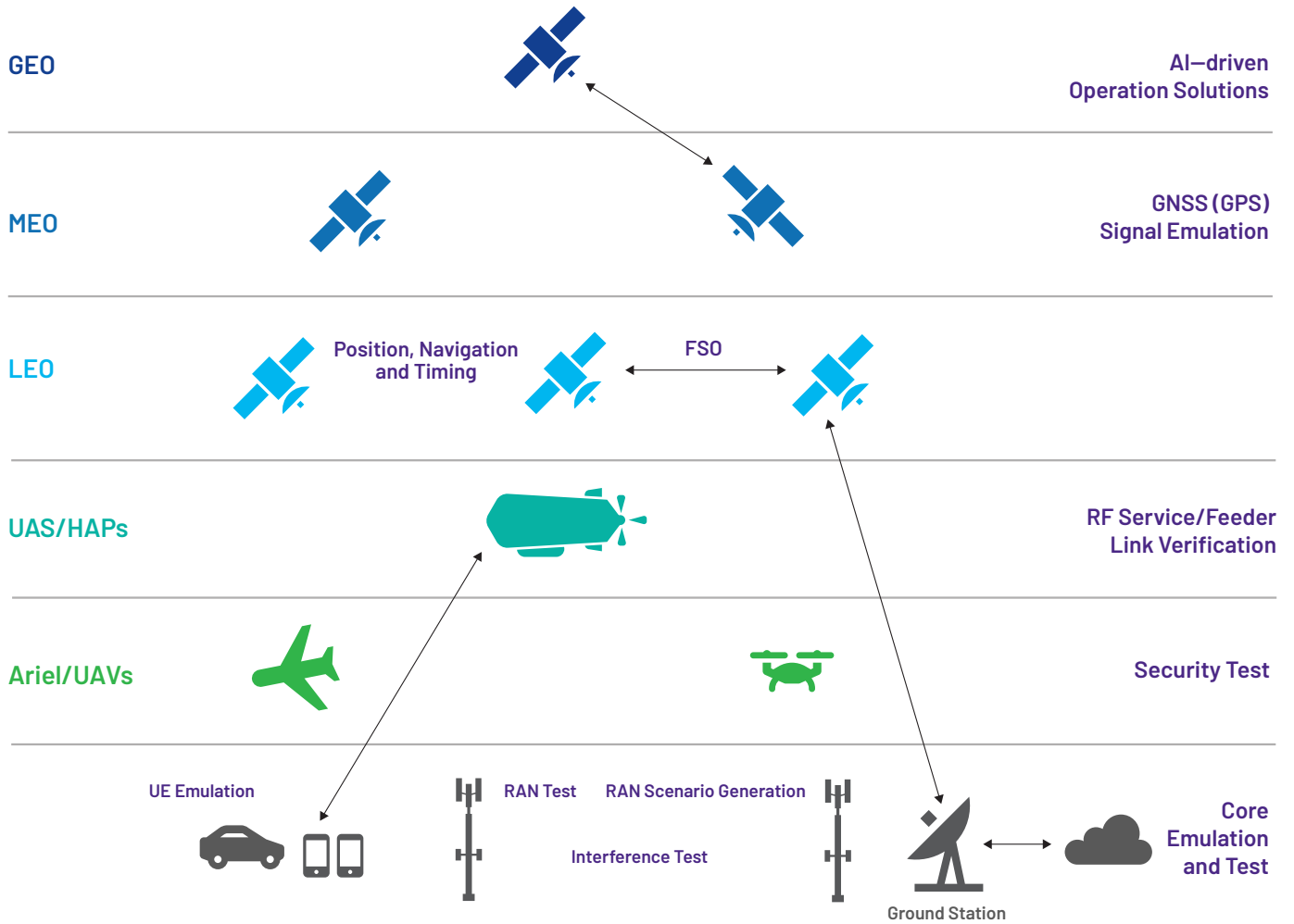
## Why VIAVI

VIAVI delivers end-to-end NTN solutions that power secure, precise, and resilient non-terrestrial networks (NTNs). When GPS timing and synchronization fall short, our technology ensures accuracy and reliability. We replicate live satellite conditions in the lab for thorough testing, reducing risk and cost before launch. With advanced security, automation, and performance optimization, VIAVI helps you deploy NTNs with confidence.

Category	Key Features
<b>Test, Train and Optimize</b>	<ul style="list-style-type: none"> <li>• Comprehensive testing for RAN, satellite, and core networks</li> <li>• End-to-end network performance evaluation</li> <li>• Realistic lab scenarios: RAN scenario generation, UE emulation, core emulation, automation, orchestration, and security testing</li> <li>• Field testing: PIM detection, over-the-air sync and timing, interference analysis</li> </ul>
<b>Position, Navigation and Timing</b>	<ul style="list-style-type: none"> <li>• Precise and resilient timing sources</li> <li>• GPS signal quality assessment</li> <li>• System clock synchronization</li> </ul>
<b>3D Positional Simulation</b>	<ul style="list-style-type: none"> <li>• GPS/Galileo-enabled device performance testing</li> <li>• Accurate location data sent to the lab for validation</li> </ul>
<b>Free Space Optics</b>	<ul style="list-style-type: none"> <li>• High-performance filters for secure, wireless optical data transmission via free-space light propagation</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Post-quantum security testing solutions: validation of NIST approved, PQC algorithms to protect against "harvest now, decrypt later" security threats</li> <li>• Compliance with 0-RAN and 3GPP security standards</li> <li>• Cyber threat testing for security devices without performance impact</li> </ul>
<b>Network Operation</b>	<ul style="list-style-type: none"> <li>• Cloud-native inventory management</li> <li>• AI/ML-driven service assurance</li> <li>• Customer and service analytics</li> <li>• End-to-end network automation solutions</li> </ul>

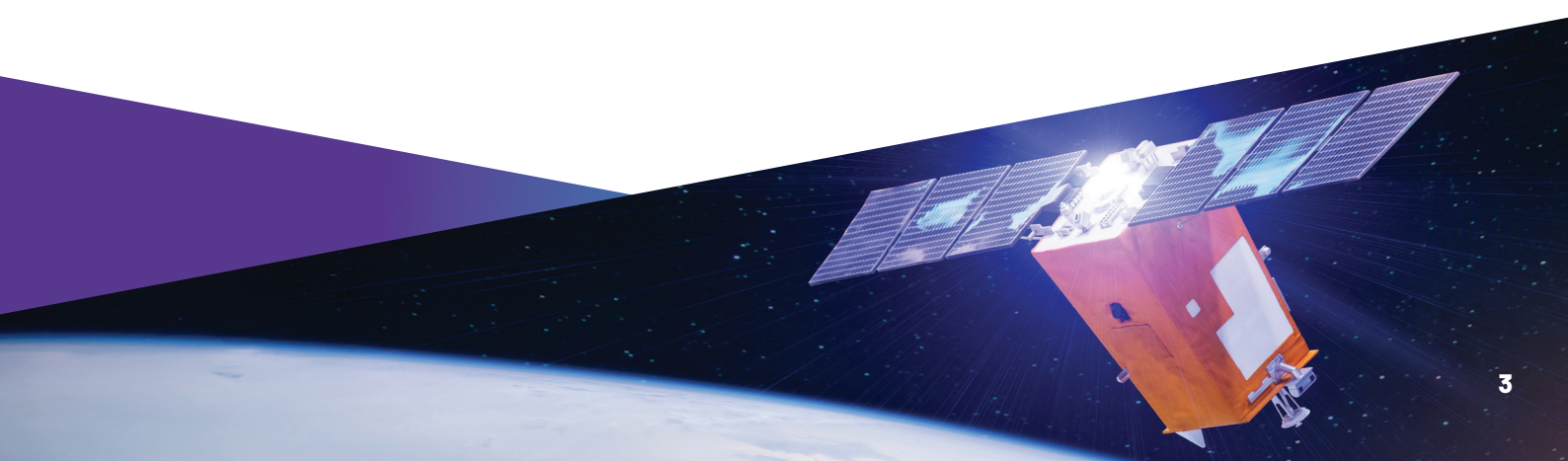
Our complete portfolio covers all critical areas for designing, testing, optimizing and operating non-terrestrial networks.

### Solutions to Design, Test, Optimize and Operate NTN Networks



1926.900.0225

Visit [viavisolutions.com-non-terrestrial-networks](https://viavisolutions.com-non-terrestrial-networks) for more information.





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