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SOLUTION BRIEF

Test and Measurement Solutions for the Automotive Industry

Market-leading test and measurement for
an era of rapid automotive innovation



Test and Measurement Solutions for the Automotive Industry

Market-leading test and measurement for an era of rapid innovation

The automotive industry is in a period of rapid evolution. New technology is improving the driving experience, making vehicles safer, enabling sophisticated infotainment services, and turning vehicles from standalone machines into hyper-connected nodes on the Internet of Things.

At the same time, the industry has an eye to an autonomous future, in which vehicles will be capable of making their own driving decisions and taking appropriate action.

For every player in the industry, the pressure is on to bring innovative, safe and compliant products to market fast—from specialist semiconductors all the way to fully-integrated driver assist systems. With in-vehicle and V2X systems spiraling in complexity, new test solutions are needed to ensure performance, compliance and safety while accelerating product development.

Spirent solutions suite

Spirent has the test equipment and expertise to enable rapid, reliable and cost-effective testing at every tier of the automotive tech stack, for every player in the automotive and autonomous vehicle value chain, and at every stage in the vehicle development lifecycle.

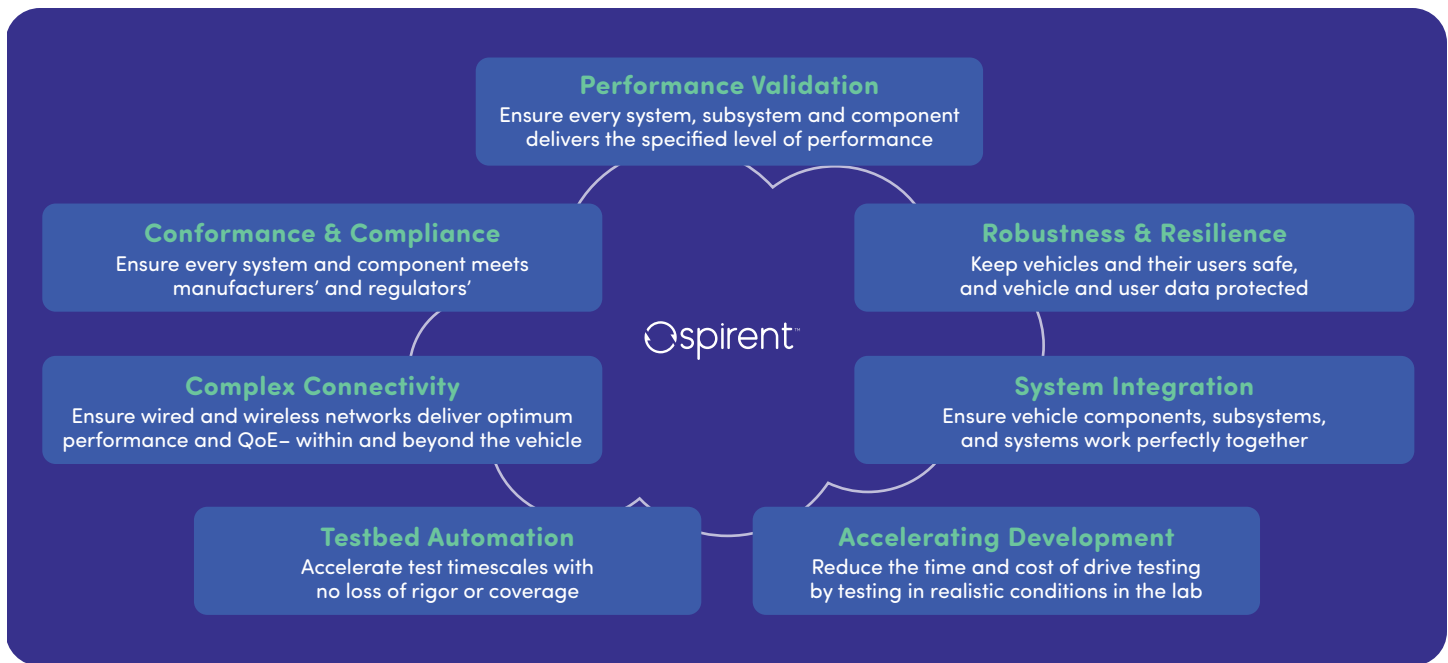
Our Ethernet test systems incorporate decades of experience working with the leading players in the automotive and autonomous industries, delivering the interoperability required for growing levels of complexity.

Through our unmatched precision, performance and test realism, we enable developers to bring new automotive innovations to market faster while ensuring standards conformance and regulatory compliance.



Solutions for your most pressing test challenges

Wherever your organization operates within the automotive industry ecosystem, you can rely on Spirent solutions to solve your most pressing test challenges.



Performance Validation

From vendor selection to full-vehicle and V2X infrastructure testing, Spirent solutions enable you to characterize the performance of your systems under test with accurate, reliable and fully-documented reports.

Conformance and Compliance

Whether you need to meet an OEM's quality criteria or ensure your vehicle design meets national or international standards and regulations, Spirent's powerful, flexible test solutions enable you to apply a wide range of test scenarios and have full confidence in the results.

Robustness and Resilience

From securing data across wireless and wired networks to mitigating the impact of incidental or malicious radio frequency interference (RFI), Spirent solutions enable you to assess the robustness and resilience of your automotive systems in a wide range of realistic adversarial conditions.

Complex Connectivity

Powering everything from basic actuators to remote diagnostics, over-the-air firmware updates and streaming video entertainment, the layers of connectivity within and beyond the vehicle are becoming more complex. Spirent is the market leader in complex connectivity testing, enabling you to test wired and wireless networks faster, more effectively, and with full confidence in the results.

System Integration

Ensuring your chosen components and subsystems work together as expected requires testing at every stage of integration: from building individual electronics modules to assembly of the complete vehicle. Spirent solutions support rigorous, repeatable testing at every stage of development, allowing you to pinpoint and address any integration issues as early as possible in the lifecycle.

Testbed Automation

Pressure on delivery timescales means finding faster and more efficient ways to test, with no loss of test rigor or coverage. Spirent's test automation solutions enable you to set up and run complex testing scenarios in minutes, while reducing equipment needs through better sharing of resources.

Accelerating Development

Drive testing is a vital but often expensive and time-consuming aspect of new vehicle development. Spirent solutions allow you to reduce the time and cost of drive testing by bringing realistic test conditions into the lab. Simulate millions of hours of driving in normal and unusual conditions, and test corner cases that would be difficult or impossible to produce in the real world.

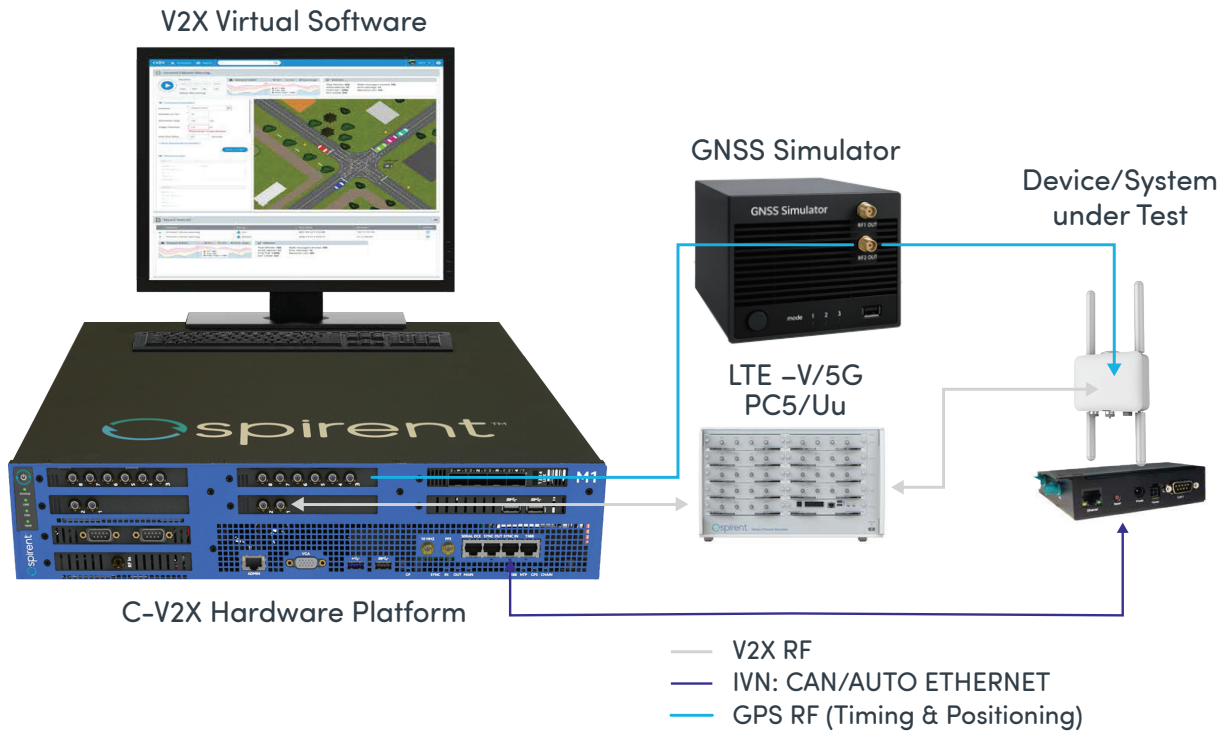
Designed to work with third-party systems

Spirent recognizes that automotive test benches comprise a range of specialist test equipment from different vendors. Our test equipment and APIs offer full, low-latency interoperability with a wide array of leading automotive test systems. Contact us to discuss integrating Spirent solutions into a wider automotive test system.

Get in touch today

Learn more about Spirent solutions for the automotive industry at spirent.com/automotive or [contact us](#) to arrange a discussion with one of our automotive test and measurement experts.

Example HIL V2X test solution



About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks. We help bring clarity to increasingly complex technological and business challenges. Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled. For more information visit: www.spirent.com

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