



# AGENDA

Time	Topic	Speaker
08:30 – 09:00	Registration	
09:00 – 09:15	Welcome & Introduction	
09:15 – 10:00	<b>Efficient testing of Highspeed buses in domain controllers and ECUs using R&amp;S outstanding oscilloscope family</b>	Rohde & Schwarz
10:00 – 10:45	<b>Latest developments in CISPR Automotive EMI standards/ Ensuring EMC compliance in the era of E-mobility</b>	Rohde & Schwarz
10:45 – 11:00	Break	
11:00 – 11:20	<b>T&amp;M the Electro Rent Way / Achieving flexible and efficient access to the latest test technology</b>	Electro Rent
11:20 – 12:05	<b>Ultra-wideband technology (UWB) for customer convenience and security/ Connectivity testing updates</b>	Rohde & Schwarz
12:05 – 12:50	Lunch	
12:50 – 13:10	<b>Rent, Buy or Both? / Mixing procurement option to optimise your testing operations and your budget</b>	Electro Rent
13:10 – 13:55	<b>Automotive radar - seeing with radio waves/ target simulation for reliable testing of mm wave sensors</b>	Rohde & Schwarz
13:55 – 14:00	Closing remarks	
End	Networking & demonstration of equipment	



# ABSTRACTS

## **Topic: Efficient testing of Highspeed buses, Domain Controllers and ECUs using R&S outstanding oscilloscope family**

One of the biggest challenges within the automotive industry is the development of automotive domain controllers and high-performance ECUs that are reliable, robust and able to handle huge amounts of critical data efficiently. It is essential that they communicate synchronously with various components within the vehicle such as sensors, actuators, ECUs and gateways using different communication protocols within the same unit – a demanding task for any engineer. Test solutions from Rohde & Schwarz, particularly oscilloscopes can ensure the signal integrity and conformance with relevant data transmission standards, for example CAN/CAN-XL and PCIe and Automotive Ethernet.

## **Topic: Latest developments in CISPR Automotive EMI standards/ Ensuring EMC compliance in the era of E-mobility**

Automotive EMI standards are developing quickly to address the impact of electric and hybrid vehicles on the electromagnetic environment. Recent changes in CISPR 25 & CISPR 36 and the ongoing revision of CISPR 12 as well as a demand to reduce test time and record the disturbance characteristic of the device under test bring new requirements for vehicle manufacturers and component suppliers. Usage of FFT-based measuring instruments is the key for addressing these topics. The presentation will address the applicability of FFT-based receivers for EMI compliance measurements against international standards, gives an inside view on the technology of such receivers and will conclude with practical use cases.

## **Topic: T&M the Electro Rent Way / Achieving flexible and efficient access to the latest test technology**

Many organisations rely on test equipment rental as an effective way to access equipment quickly, and may also benefit from longer-term, low-cost rental options to support their on-going testing requirements. Through a series of real-life scenarios, we will explore the broad benefits of or rental and show how it can be used most effectively in variety of situations to access the latest equipment quickly and manage budgets efficiently.

## **Topic: Ultra-wideband technology (UWB) for customer convenience and security/ Connectivity testing updates**

Ultra-wideband (UWB) technology has excellent fine-ranging and security capabilities which make it very well suited for automotive applications such as Remote Keyless Entry and parking assistance. Now, with the adoption of UWB into smartphones and vehicles, ensuring its correct function and performance becomes increasingly important. Join this webinar for an overview of the test challenges associated with UWB chipsets and modules from R&D to conformance & production and receive a practical demonstration of high-performance test solutions.



### **Topic: Rent, Buy or Both? / Mixing procurement option to optimise your testing operations and your budget**

With test equipment procurement decisions often made in isolation, many organisations could benefit from a more strategic approach. By selecting the most effective procurement method for each situation, they can ensure fast and flexible access to the testing technology they need to innovate and grow, while also maximising efficiency, minimising costs and conserving precious capital. Learn about the options available and how to mix them, for the best results.

### **Topic: Automotive radar - seeing with radio waves/ target simulation for reliable testing of mm wave sensors**

Testing automotive radar sensors function and performance is a continual process during development and certification. Historically, accurately quantifying parameters such as angular and range resolution and accuracy, required considerable investment in test resources, involving bulky, expensive, and inflexible systems. Now, a new approach is available to radar sensor developers which offers low barrier to ownership, can be customized exactly to current needs and is fully expandable to future requirements. Join this presentation to find out how the capabilities of the game-changing fully electronic R&S radar test system can be utilized in a physically-compact benchtop form defining a new level of cost efficiency whilst expandable to encompass any future radar object simulation scenario.