



# OSCILLOSCOPE DAYS 2021

## AGENDA

### Day 1 – 18.05.2021

- 9:00 – 10:30 **How to choose the measurement setup?**
- How to estimate needed bandwidth of your equipment?
  - How does a VNA, Oscilloscope, SPA and EMI receiver operate?
  - Which instrument to choose for which application?

10:30 – 13:30 **Lunch Break**

- 13:30 – 15:00 **Analysis of Power Integrity and DC/DC-Converters**
- How does switching semiconductors influence my DUT?
  - Why power integrity matters?
  - How and what to test on your DUTs power conversion and distribution parts?
  - When are high differential probes needed?
  - Filtering for digital transmission systems

### Day 2 – 19.05.2021

- 9:00 – 10:30 **Signal integrity and Bus analysis using Oscilloscopes**
- What basic analysis can be done with any oscilloscope?
  - How to use a protocol decode and what information do I need to get a proper decode on screen?
  - What could eye diagrams be used for?
  - Which influence does my transmission line and filters and protection circuits have on my signal integrity?
  - USB trigger & decode

10:30 – 13:30 **Lunch Break**

- 13:30 – 15:00 **How to debug EMC of my device?**
- What does debug mean?
  - Which instruments can be used for EMC debugging?
  - What accessories are really needed?
  - How to qualify EMC during the development cycle with oscilloscopes?