

Welcome to the MOST Forum 2011

ENTERTAINMENT
INFORMATION
MOBILE CONNECTIVITY
CONNECTED SERVICES
DRIVER ASSIST

INDUSTRY PROFESSIONALS
AND ACADEMIA
TECHNOLOGY HIGHLIGHTS
AND FUTURE OUTLOOK

MOST - One Network for
Many Applications

Exhibition



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MOST25 and MOST150 transceivers – high-end POF components optimized for automotive applications

- Compliant with MOST physical layer specifications
- Relnetyx released and listed in MOST compliance list
- Operating temperature -40°C to $+95^{\circ}\text{C}$
- Compatible with MOST network interface controller ICs



BMW Group



Knowledge Partner

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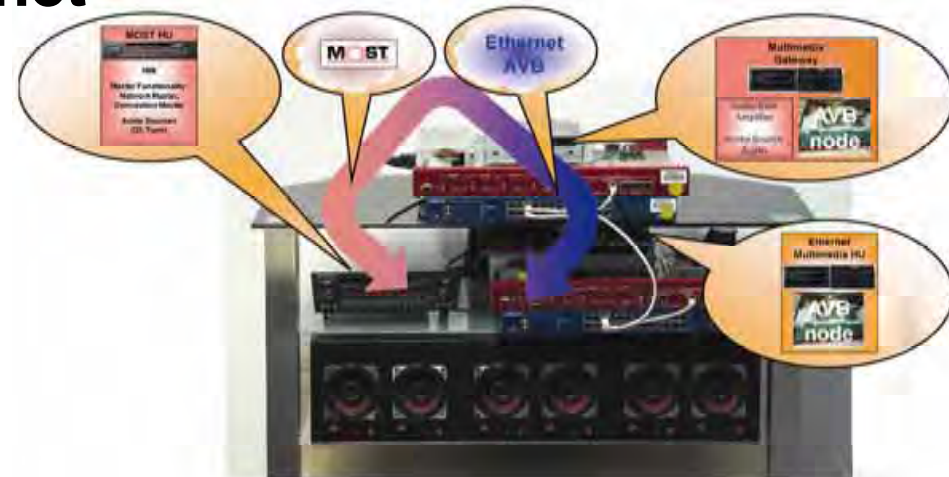
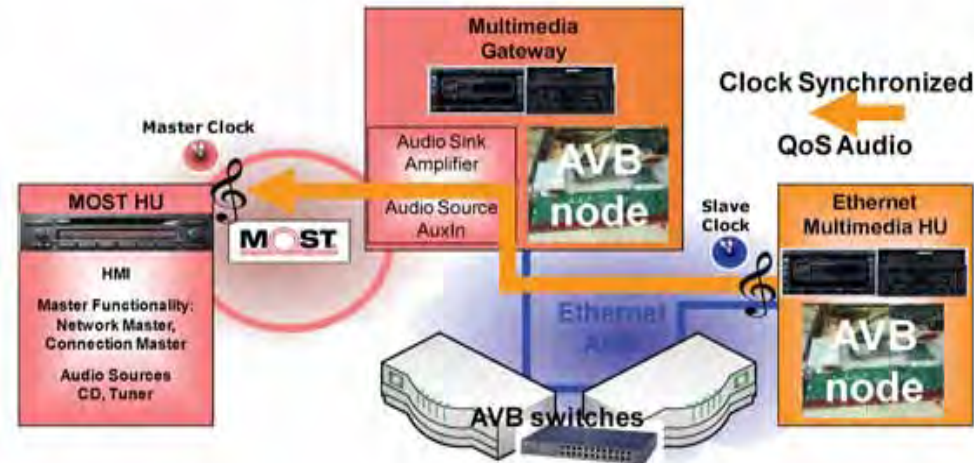
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- MOST/Ethernet AVB Gateway keeping QoS
- Supports QoS Streaming between MOST <-> Ethernet
- Carryover of existing MOST components
- Migration towards an IP based network layer



DAIMLER



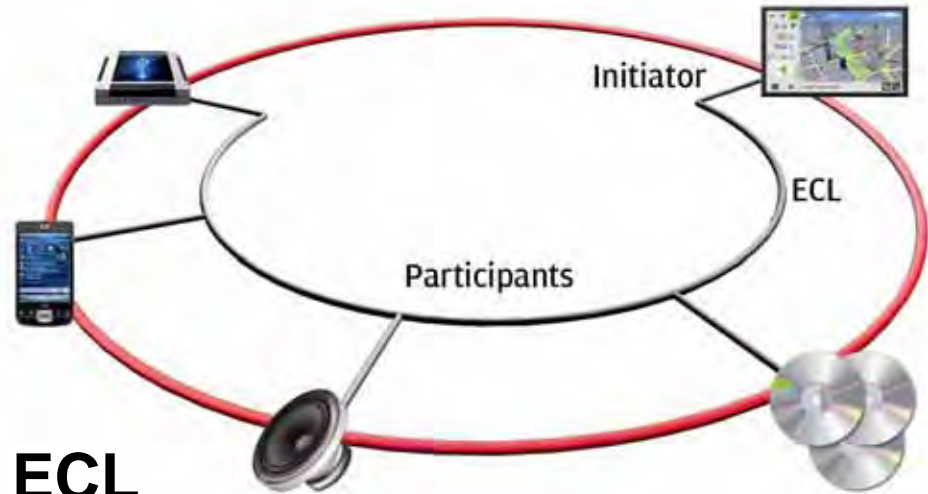
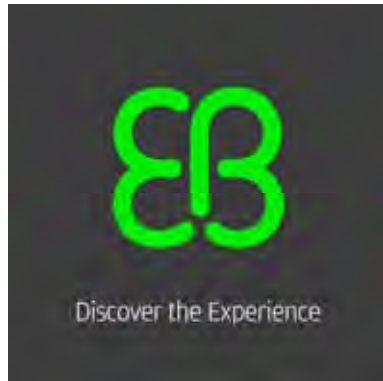
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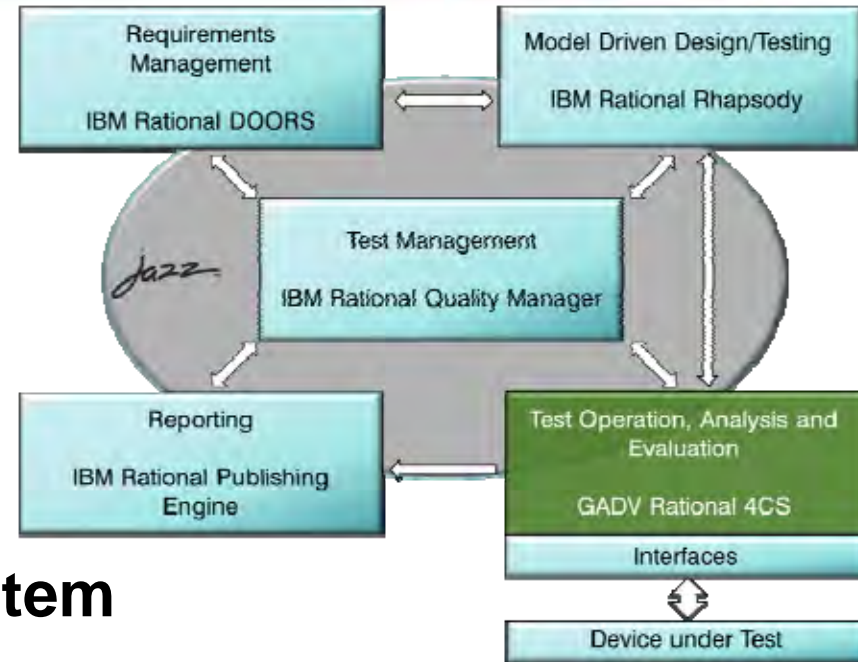
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- **Demonstration of MOST ECL**
- **Initiator and Participant devices**
- **Set-Up with several demo devices in one ring**
- **EB realization based on latest MOST Cooperation specification**



- **MOST Compliance Test System**
- **MOST150 Compliance Testing available**
- **Device Test integrated in IBM Rational**
- **Automatic, Deterministic, Revision Proof**
(ISO/IEC 62304, 60601, FDA 21CFR820)

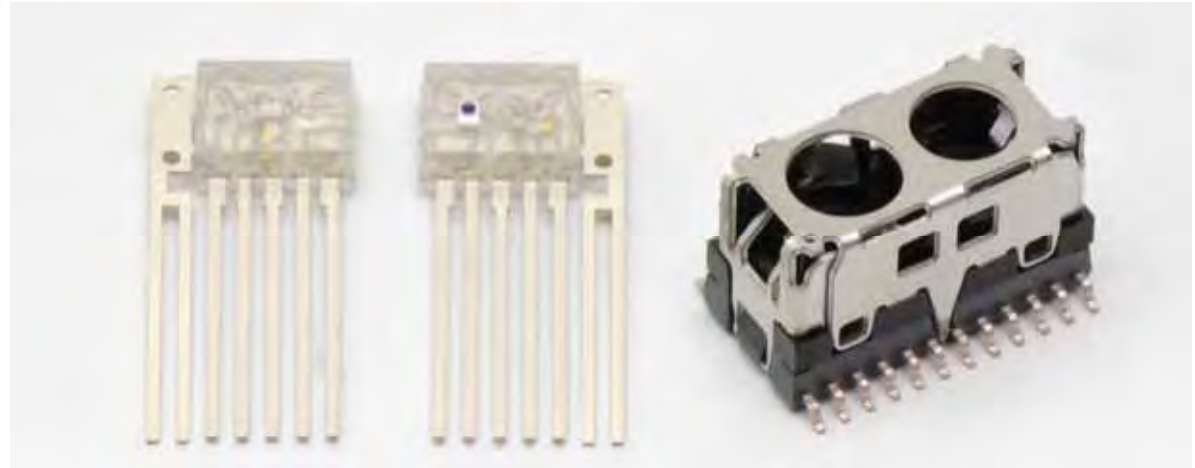




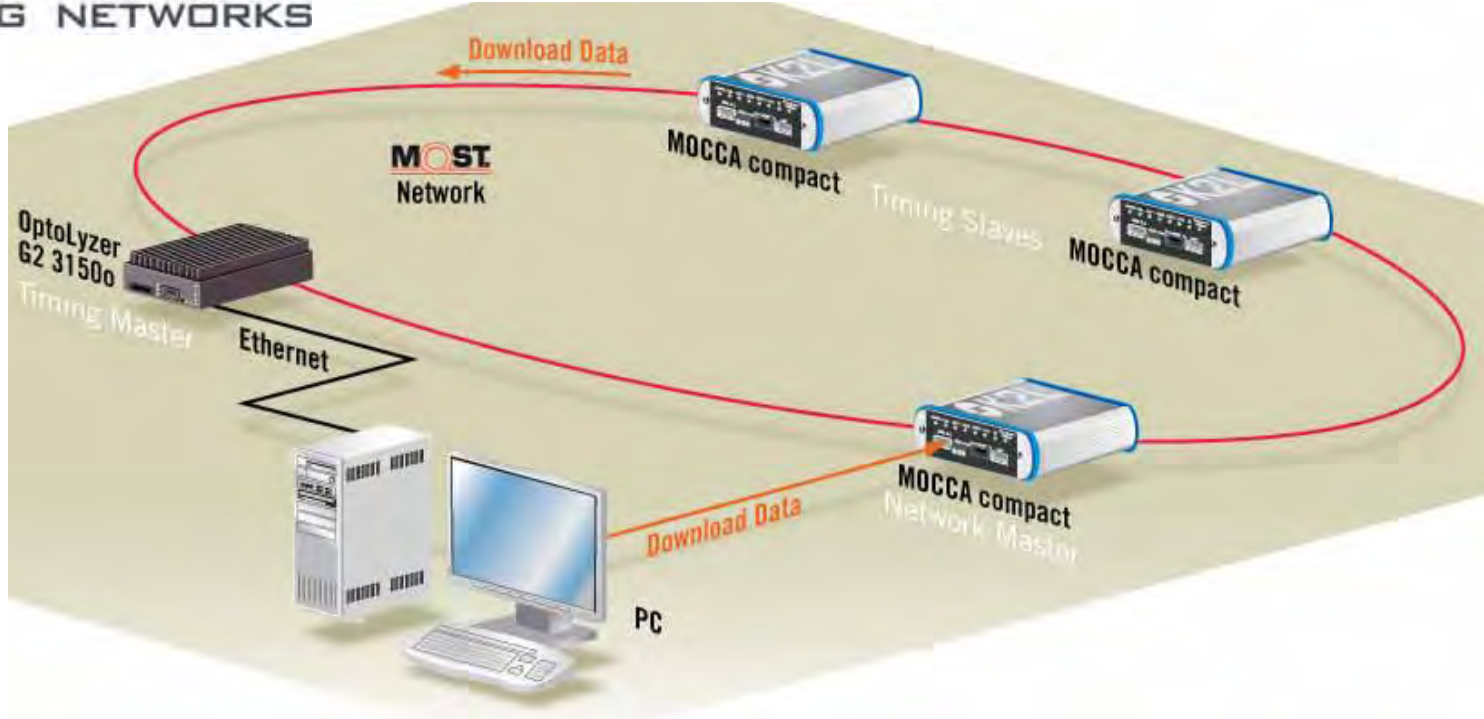
- Vendor of intelligent MOST25 and MOST150 interfaces
- Solutions for development, quality and production
- Supported hardware standards for USB, Ethernet, PCI, PXI and PXIe



HAMAMATSU
PHOTON IS OUR BUSINESS



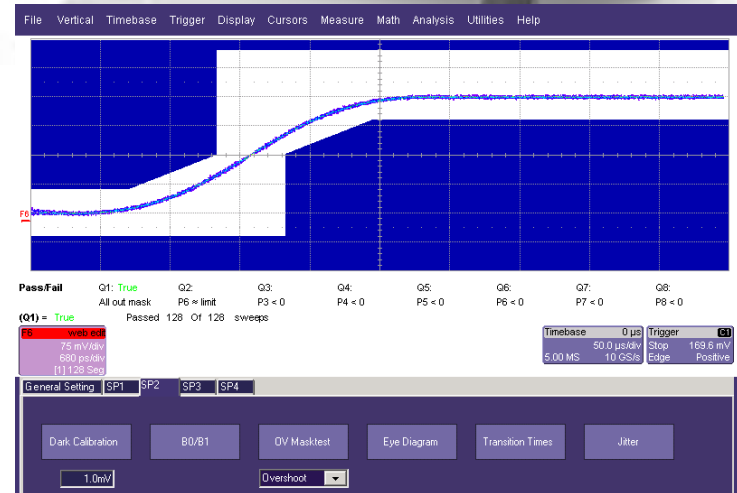
- Hamamatsu – Photon is our business
- Opto-Semiconductors for Automotive Applications
- Fibre Optical Transceivers for MOST25 and MOST150

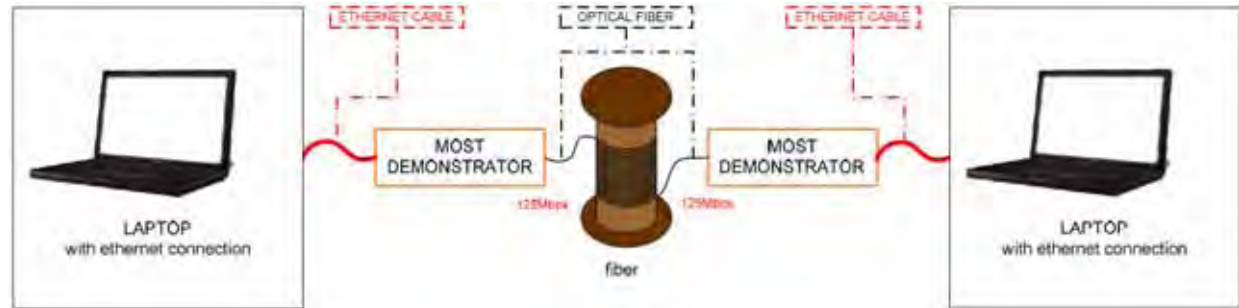


■ Diagnostics and Flash Download over MOST



- Realtime Digital Scopes (DSO) from LeCroy
- MOST150 oPhy Compliance Test PlugIn based on LeCroy DSOs
- Preliminary Version: Compliance Test PlugIn for MOST50 ePhy





- Highest optical budget
- High robustness against temperature cycling and SMD reflow soldering
- Two package versions: Surface Mount and Sidelooker
- Communication over 70 meters POF



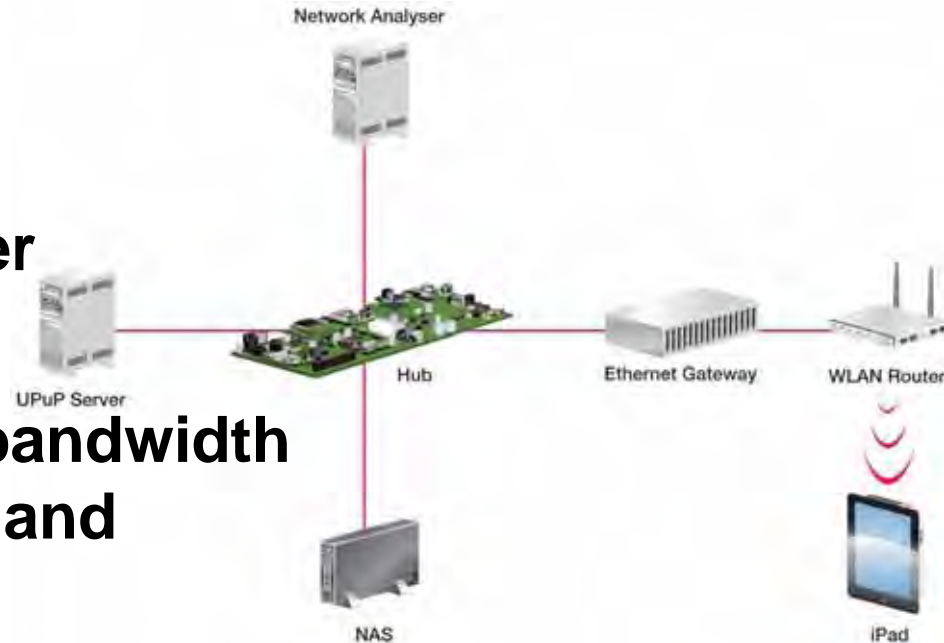


- Automotive Physical layer for Ethernet in the car

- De-facto standard, high bandwidth network for infotainment and driver assist systems

- Support of

- all consumer standards, like UPnP, DLNA, etc.
- diagnostics standards (DoIP)
- multiple optical and electrical Physical layers, like POF or Coax
- multiple topology options (e.g. star, tree, daisy chain, ring)

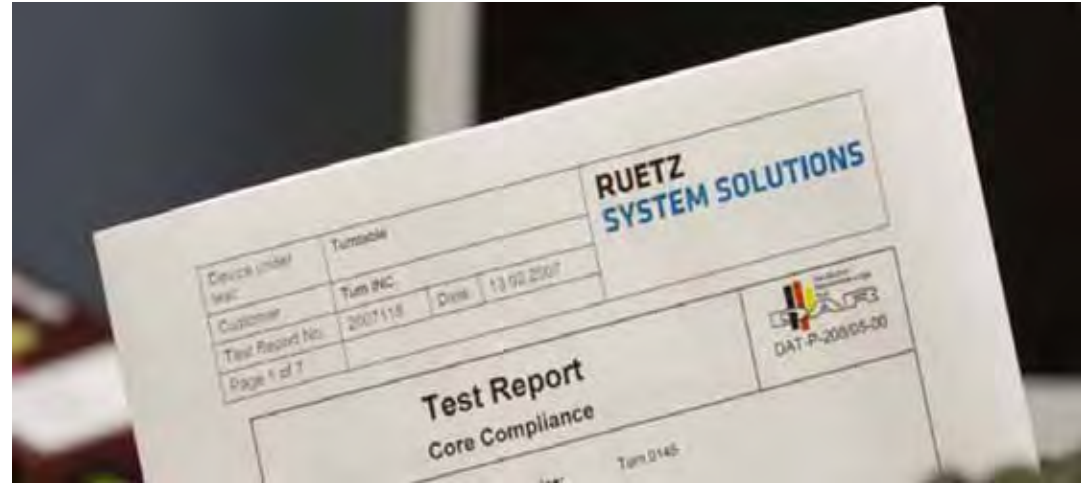


Ontorix

- Development and qualification of next generation infotainment systems
- Ontorix MOST150 Suite - platform for the comprehensive evaluation of MOST150 and INIC 150 (OS81110) in all aspects
- Ontorix Tester - tool for test automation of complex vehicle networks



RUETZ **SYSTEM SOLUTIONS**



■ **Automated Test of HMIs and Cluster Instruments**

Full automated test of display units with the TTCN-3 based frame work TTsuite

■ **Testerlyzer pro Compliance**

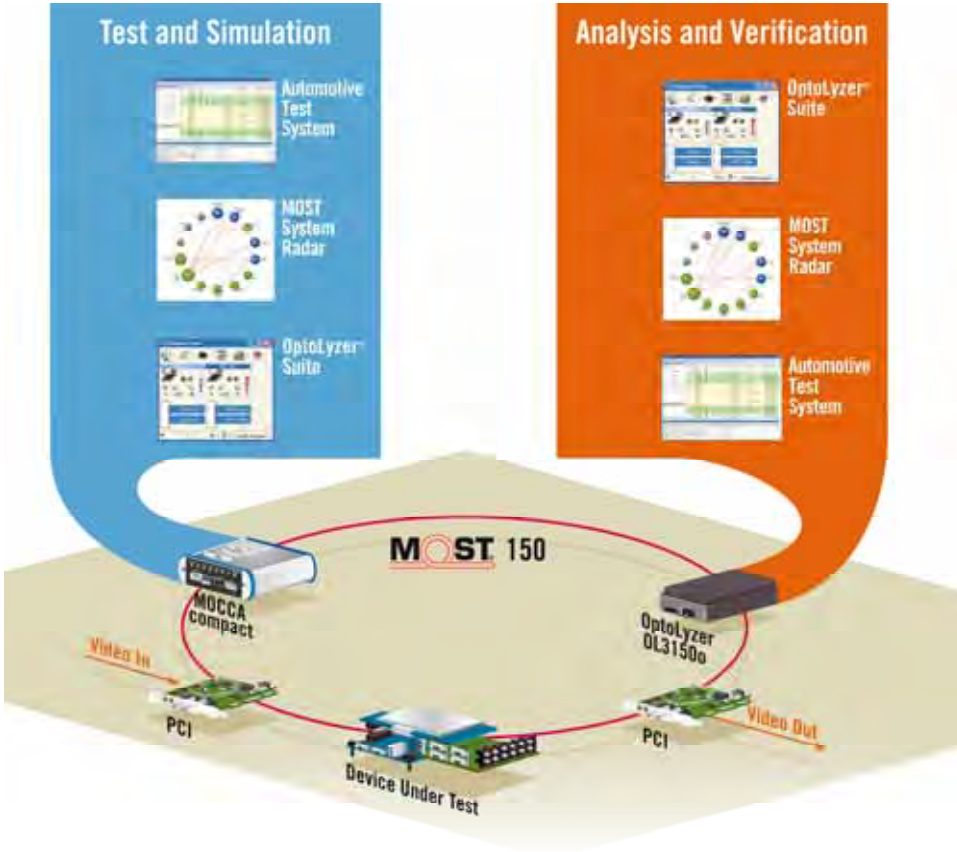
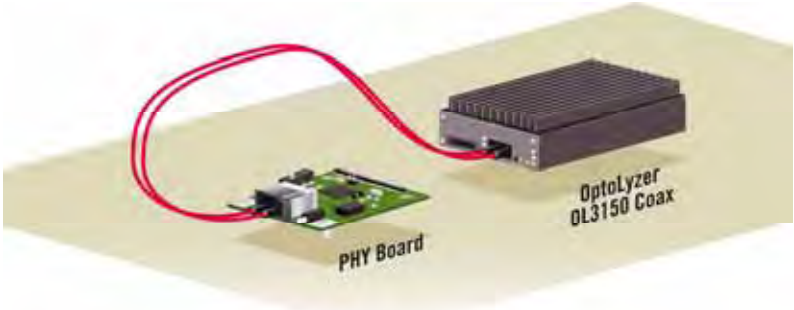
Full automated Core Compliance test system for MOST25, MOST50ePhy and MOST150

■ **Physical Layer Stress Test Tool for MOST150**

Stress test tool for development, laboratories and end of line applications



- Comprehensive MOST Tool Chain
- Optolyzer OL3150 Coax



Telemotive AG



■ NEW: Multi-Bus Data Logger blue PiraT

MOST25 / MOST50 / MOST150

■ Mobile Data Acquisition

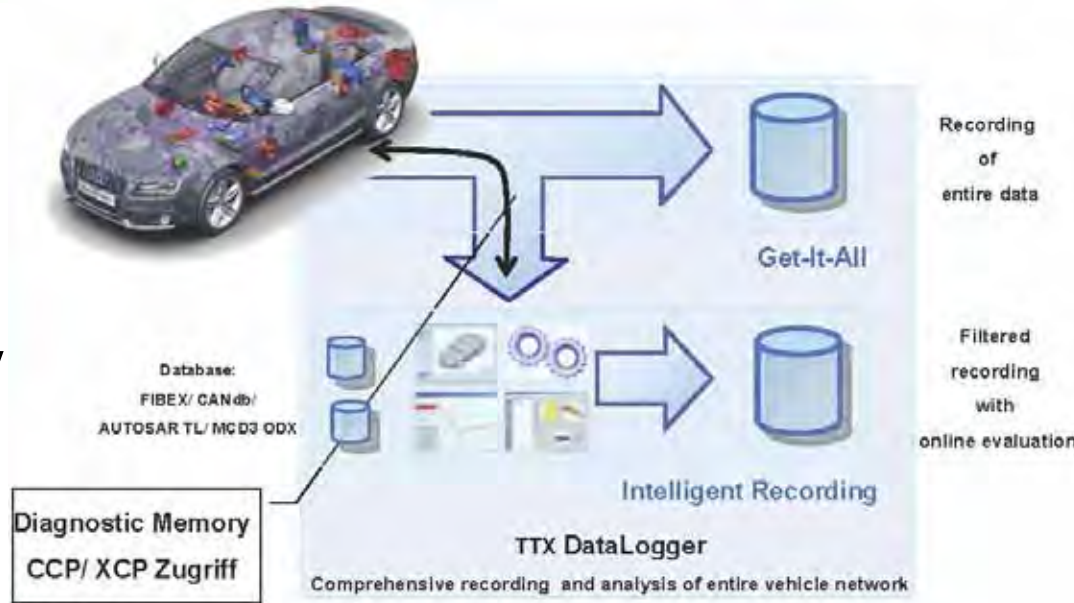
■ blue AdmiralL – Video Testing

■ Premium Engineering Services





- Free programmability
- Common time stamp
- For all bus systems
- Configurable
- Power management
- Filter-trigger-diagnosis





- **VN2640**

MOST150 interface for USB with access to all data of the MOST ring

- **CANalyzer.MOST**

Analysis tool for MOST ECUs and networks (MOST25, MOST50 and MOST150)

- **CANoe.MOST**

Development and testing tools for MOST ECUs and networks (MOST25, MOST50 and MOST150)

- **MOST training**

Workshop for MOST fundamentals and introduction into the MOST functions of CANalyzer and CANoe





- **Production lineup of Yazaki MOST150 solutions**
- **MOST150 demonstration using a small optical connector**
- **Existing MOST connectors capable of being replaced with a small optical connector**
- **Header connector compatible with both through-hole and reflow processes**

Conference Program

12.00	Lunch / Networking / Exhibition	
13.45	Investigation and Simulation of High Speed Gigabit Transmission for POF Based MOST Networks <i>Andreas Hohn, Alpine; Prof. Dr. Joachim Speidel / Yixuan Wang, University of Stuttgart</i>	MOST Physical Layer
14.05	A Robust and Low-cost MOST with 1000 MBit/s for Automotive <i>Óscar Ciordia / Carlos Pardo / Rubén Pérez de Aranda, KDPOF</i> The New Gigabit POF-Standard for Home Networking - New Possibilities for Automotive Applications as well <i>Prof. Dr. Christian Alexander Bunge, DKE WG 412.7.1, University of Applied Sciences Leipzig; Prof. Dr. Olaf Ziemann, University of Applied Sciences Nuremberg</i>	
14.30	Benchmark of MOST Components – Idea, Concept and Experience <i>Dr. Viktor Tiederle, Relnetyx</i>	
14.45	Proposal of MOST Small Optical Connectors <i>Naoshi Serizawa, Yazaki</i>	
15.00	Coffee Break / Networking / Exhibition	