EMBEDDED SYSTEMS SOLUTIONS
www.embeddedindia.com

LEADING ONE STOP PROVIDER FOR EMBEDDED SYSTEMS

ESS AUTOMOTIVE PRODUCT PORTFOLIO

ESS's synergetic Automotive Product Portfolio holistically supports design, development and debugging of High Performing Mission and Safety Critical Automotive Solutions.

Multicore Development Qualification ToolKits
Functional Safety Driver Monitoring Static Code Analysis
Model Based Development Tools EV Test Solutions SafeTPack
AUTOSAR **AUTOMOTIVE** Safety RTOS
LV 123, LV 124, LV 148
HYPERVISOR **SOLUTIONS** CAN/CAN-FD
Automotive Electrical Test Solutions JTAG Debuggers
High Speed Data Acquisition MCAL ISO 26262 ADAS
Automotive Ethernet TESTING (MIL, SIL, PIL, HIL)
High Performance Power Supplies Automotive Stacks



AUKUA SYSTEMS · Acute PC-based T&M Instruments · AMETEK PROGRAMMABLE POWER · ALTAIR · ART logics EUROPE · SHANGHAI · SUZHOU · BlackBerry | QNX · ETAS
BOLAB · GW INSTEK · HIGHTEC · LAUTERBACH DEVELOPMENT TOOLS · MES MODEL ENGINEERING SOLUTIONS · Monsoon Solutions Inc. · PEAK System
Quarch Technology · RFcreations ...a different perspective · SEGGER · SYNOPSYS · technica engineering · TOELLNER

HIGHTEC
german engineering

AUTOMOTIVE GRADE C/C++ & RUST COMPILERS



LLVM COMPILER INFRASTRUCTURE · Rust Foundation · RISC-V® · SOAFEE

TC4x/TC3x	ARM	RISC-V	RH850
TC4x/TC3x C/C++ compiler for TriCore	C/C++ compiler for Cortex Mx/Rx/Ax	C/C++ compiler for RISC-V	C/C++ compiler for RH850
Rust compiler for TriCore	Rust compiler for Cortex Mx/Rx/Ax	Rust compiler for RISC-V	Rust compiler for RH850
C/C++ MetaWare tool and libraries for PPU / CDSP			U2A/U2B/U2C/U2E
C compiler for GTM/MCS, HSM, SC			
Infineon	NXP · Stellar · ST · Texas Instruments		Renesas

ISO26262 ASIL D and ISO 21434 Qualification & Automotive-Grade Services

- Industry Shortest Compile-Link Build Times
- Continuous Compiler optimization improvements through active benchmarking with semiconductor vendors
- Compiler developments for next generation microcontrollers (ahead of market availability)
- Preferred Design House by Infineon & Preferred Compiler Partner by STMicroelectronics
- Infineon and ST AUTOSAR MCAL
- Infineon SafeTLib

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LAUTERBACH
DEVELOPMENT TOOLS

SDV READY with LAUTERBACH DEVELOPMENT TOOLS



Market Leading Development Tools for
Debugging & Profiling Automotive System

TRACE32® covers the Entire Product Life Cycle from Cloud Development to Real Chips to ECUs in the Field.

Broadest Support for Automotive Chips including Nvidia, Qualcomm, NXP, Infineon, Renesas and Texas Instruments.

Ready for Virtualized Software Defined Vehicle (SDV) Architectures including High-Performance-Computing.



- Broadest Debug and Trace Support
  - Supporting > 150 Architectures including
    - Arm® Cortex-A/R/X, Neoverse, Cortex-M
    - RISC-V 32/64 bit, RH850, TriCore,
    - Xtensa®, Arc, C2000/6000/7000
  - Supporting > 15,000 Chips & VDKs including
    - Infineon AURIX™ TC2x/3x/4x, RISC-V Prototype
    - NXP S32 (including S32N55, S32N7)
    - Renesas R-Car Gen.3/4/5, RH850, U2B
    - Qualcomm Snapdragon Automotive
    - Nvidia Drive Orin/Thor
    - Texas Instruments TDA4/TDA5
- AMP/SMP Multicore Debug & Trace
- Hypervisor Awareness
  - Microsar, L4Re, QNX, EB Corbos, Xen, VxWorks,…
- OS Awareness
  - Android, Linux, Microsar,…
  - FreeRTOS, QNX, Zephyr OS, Nucleus,…
- Broadest Support for Emulators, Simulators and virtual Targets including
  - Synopsys VDK, Cadence VLAB
  - Arm® FastModels/FVP, QEMU
  - Corellium Arm Virtual Hardware
- ISO 26262 Tool Qualification Kit
- XCP/USB Debugging
- Integration into CI/CD Pipelines
- PIL Simulation – MathWorks Simulink
- Non-Intrusive Code Coverage

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EMBEDDED SYSTEMS SOLUTIONS

AUTOSAR solutions from ETAS

Tools, basic software, and services

AUTOSAR Classic Platform RTA-CAR

Complete solution ready-to-go

- Comprehensive AUTOSAR solution
- One development framework for multiple OEM platforms
- Wide range of hardware support across many components like OS, HSM, MCAL, transceivers and switches
- World's smallest and fastest AUTOSAR OS
- OEM extensions and flash bootloaders
- Enhanced solutions by non-AUTOSAR extensions

Market leading state of the art security

- Cutting edge AUTOSAR security stack combined with CycurHSM
- Functional safety and ISO26262 certified up to ASIL-D

Proven and reliable

- More than 3 billion ECUs on the road
- Qualified by several OEMs
- Proven at hundreds of customers





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EMBEDDED SYSTEMS SOLUTIONS

AUTOSAR solutions from ETAS

Tools, basic software, and services

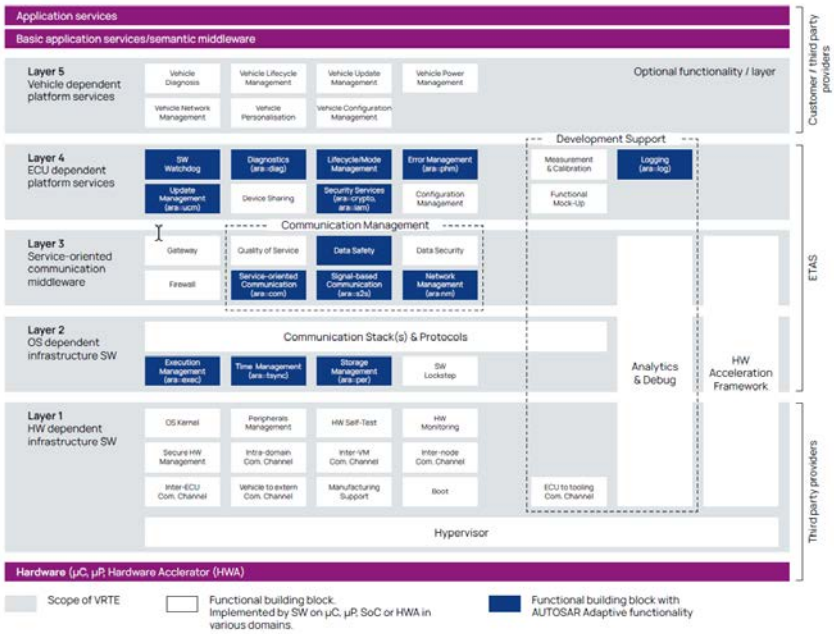
AUTOSAR Adaptive Platform RTA-VRTE

Off the shelf solution

- Cloud development ready
- Integrates with a wide range of 3rd party software solutions
- Runs on POSIX OS (Linux and QNX out of the box)
- Easy and user-friendly configuration
- Nominated by various customers for upcoming series cars
- Supporting the newest standards
- Starter kit, which gets you running immediately

Safety & security from the inside out

- Ready for integration in safety related ECUs up to ISO26262 and ASIL-B (up to ASIL-D on request)
- Cutting edge security extensions in combination with ETAS security solutions



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EMBEDDED SYSTEMS SOLUTIONS

SEGGER

It simply works!

Embedded development tools by SEGGER

Debug & Trace probes



Software Tools



RTOS

File system

Compression

IP



Firmware updates

USB

Encryption

Authentication



User interface

Embedded Software

Production Tools



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EMBEDDED SYSTEMS SOLUTIONS

BlackBerry | QNX

FOUNDATIONAL SOFTWARE SOLUTIONS FOR THE MODERN VEHICLE



BlackBerry QNX eases the challenges of building ISO 26262 compliant automotive systems through its solutions

BLACKBERRY QNX

FUNCTIONAL SAFETY SOLUTIONS



OPERATING SYSTEM	VEHICLE INSTRUMENT CLUSTERS	ADVANCED DRIVER ASSISTANCE	HYPERVISOR	SYSTEM SAFETY DETECTION
Provides a reliable RTOS foundation that is pre-certified to the highest level of ISO 26262 - ASIL D	Delivers an ISO 26262 ASIL B pre-certified graphics solution	Provides a foundation on which to build safe and reliable autonomous driving software	Isolates safety-critical systems from non-safety critical systemas	A fault tolerant technique to address hardware and software errors in safety-critical systems

BlackBerry QNX's safety solutions mitigate risk of non-compliance and reduce development and certification costs.

QNX OFFERS SAFETY-CERTIFIED AND SECURE SOFTWARE SOLUTIONS TO BUILD AUTOMOTIVE SUBSYSTEMS AND ECUS.

ADAS & AUTOMATED DRIVE

BlackBerry QNX powers advanced driver assistance systems (ADAS) with an OS certified to ISO 26262 ASIL D, as well as frameworks and middleware to enable automated drive features.

Products: QNX OS for Safety, QNX Hypervisor for Safety, QNX® Sensor Framework

DIGITAL COCKPIT

BlackBerry QNX enables digital cockpits that integrate multiple in-car systems while separating safety-critical systems from non-safety critical systems.

Products: QNX Hypervisor, QNX Hypervisor for Safety, QNX® Advanced Virtualization Frameworks, QNX® Acoustics Management Platform, QNX® Sensor Framework, QNX® Multimedia Suite, QNX® Speech Framework, QNX® SDK for Smartphone Connectivity

INSTRUMENT CLUSTERS

BlackBerry QNX offers a reliable, functionally safe solution for digital instrument clusters. Its one-of-a-kind ISO 26262 ASIL B pre-certified graphics solution and ISO 26262 ASIL D pre-certified RTOS

Products: QNX® Graphics for Safety, QNX OS for Safety

INFOTAINMENT

BlackBerry QNX offers market-leading technologies for the development of connected, safe and secure infotainment systems.

Products: QNX Acoustics Management Platform, QNX Sensor Framework, QNX Multimedia Suite, QNX Speech Framework, QNX SDK for Smartphone Connectivity

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EMBEDDED SYSTEMS SOLUTIONS

MES
MODEL ENGINEERING SOLUTIONS

MES MODEL EXAMINER®

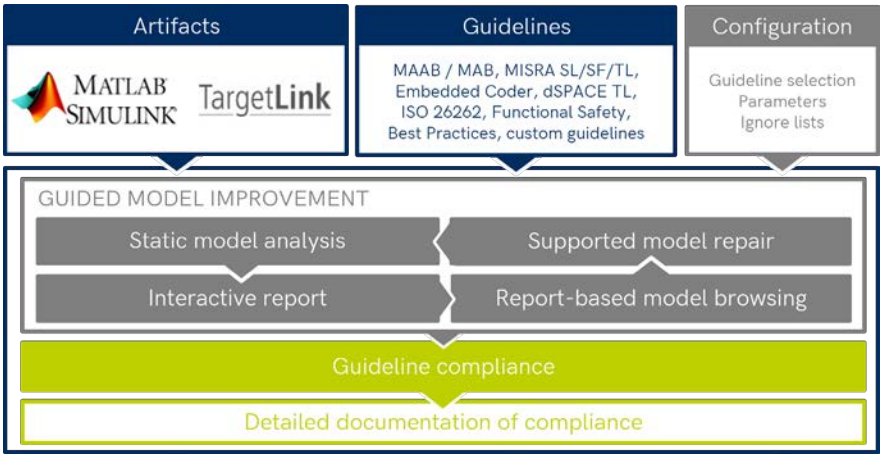
The first choice for static model analysis

Easy Checking of Modeling Guidelines

The Model Examiner (MXAM) is your first choice for a comprehensive static model analysis. MXAM offers an easy way to check modeling guidelines, analyze model structure, and evaluate model metrics, all in a single tool. Comprehensive user guidance through analysis results as well as the repair and improvement process effectively ensures ISO 26262 standard compliance for your software models.

Ensuring ISO 26262 Compliance

MES Model Examiner® is certified by TÜV SÜD as a T2 Offline Support Tool for use in safety-relevant software development in compliance with ISO 26262, IEC 61508 & ISO 25119.



MES Model Examiner® analyzes software models for guideline compliance and guides the user through the repair and improvement process.

Key Benefits

- Automated checks and repairs for Simulink®, Stateflow®, Embedded Coder®, TargetLink®, ASCET® and Excel® guideline violations
- Efficiently ensure ISO 26262-, ASPICE-, and MISRA®-compliant software models
- API for developing and integrating company-specific checks
- Simple integration into existing development environments
- Support system for guideline and check development

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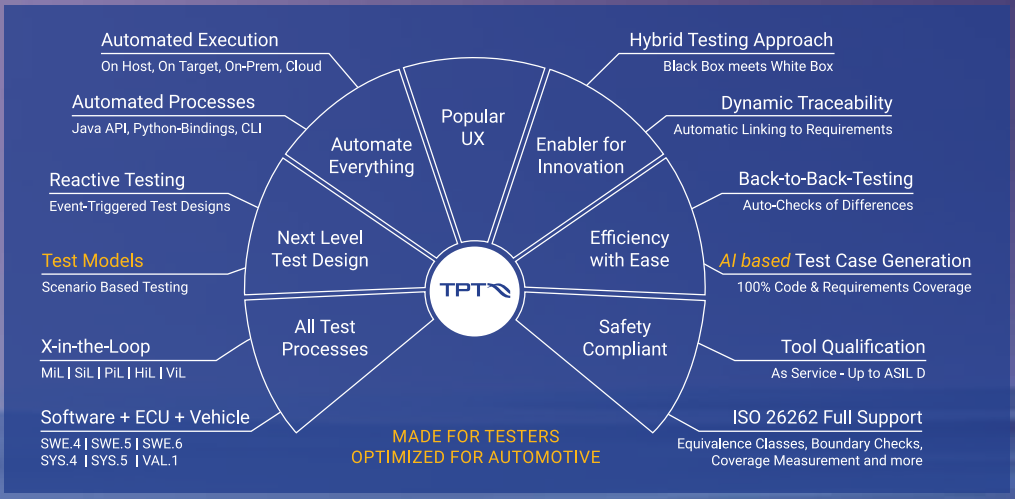
EMBEDDED SYSTEMS SOLUTIONS

SYNOPSYS®

TPT

TPT Test Automation Framework

TPT a leading Automotive Test Automation Platform for Software-In-Loop, Model-In-Loop (Simulink Models), Processor-In-Loop. Vehicle-In-Loopp testing and even AUTOSAR SWC testing. Most automotive OEMs and TIER 1s have been using TPT to build comprehensive test automation suites quickly and effortlessly for different test environments.



FEATURES	DESCRIPTION
Test Automation	Automates unit, integration, and system-level testing for embedded software.
Model-Based Testing	Supports MATLAB/Simulink, dSPACE TargetLink, ASCET, and AUTOSAR.
Model Coverage Analysis	Targets model coverage goals like MC/DC or branch coverage
Automatic Test Case Generation	Automatic Test Case Generation • For 100% Model & Code Coverage • For 100% Requirements Coverage • Based on Formal Requirements • Based on test data/equivalence classes/variants/value rangesTT
ECU Testing	Runs tests on real ECUs, HIL, PIL, MIL and SIL platforms.
Back-to-Back Testing	Compares MIL, SIL, PIL, and HIL test results for consistency.
Requirements-Based Testing	Ensures traceability with requirements captured in all popular Requirement Management Tools/PLM tools (DOORS, Polarion, Codebeamer)
Code Coverage Analysis	Measures MC/DC, condition, decision, and statement coverage.
ISO 26262 Compliance	Certified tool for safety-critical automotive software testing.

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EMBEDDED SYSTEMS SOLUTIONS

Monsoon Solutions Inc.

THE NEXT GENERATION OF 2-IN-1 HIGH PRECISION POWER MONITORING HARDWARE AND BENCHTOP POWER SUPPLY IS HERE

Eliminate the need to buy a separate power supply and power monitoring device. Save space and test setup cost using the highly scalable solution of Monsoon High Voltage Power Monitor (HVPM).

POWERFUL SOFTWARE
Full featured Windows GUI-PowerTool. Multiple APIs support for Linux, Mac and Windows platforms which allow for fully-automated testing

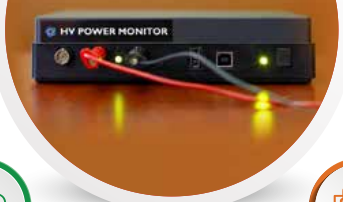
WIDE VOLTAGE AND CURRENT RANGE
Main Channel- Output Voltage Range 0.8-13.5 V
USB- Up to 5.5 V
Aux Channel -Up to 13 V supplied externally
0.01 V Increments
Continuous Current 6 A

PORTABLE MODULAR DESIGN
Very flexible; Can be deployed individually at a single workstation or scaled up to rack mount style configurations for large scale testing

HIGH ACCURACY
Main Channel- Fine Current Range
50µA-60 mA; Resolution 0.9 µA
(+/- 50µA) in low current measurements
Coarse Current Range 60mA-6A;
Resolution 125 µA

WIDE APPLICATIONS
Development and testing of Smartphones, Tablets, Software App, Automotive, IOT devices with respect to Battery drain

APPLICATION HIGHLIGHTS



INDUSTRY LEADING CERTIFICATIONS
UL, FCC and CE certified

AFFORDABLE

BRIEF SPECIFICATIONS

- Size: 8 in x 6 in x 2 in (20 cm x 15 cm x 5 cm)
- Weight: 1.1 lb (0.5kg)
- Input power 115V to 240V, 47-63Hz
- Main channel 0.8V to 13.5V range
- USB channel 2.1V to 5.4V
- Aux channel input 0.5V to 13V
- UL, CE, FCC certified

TYPICAL USE CASES

- Smartphones, Tablets or Laptops
- Smartphone Apps
- Internet of Things (IoT) Devices, Medical Devices
- USB Devices
- Automotive Sub-circuits
- Prototype Designs
- Power measurement of Arduinos, Raspberry Pi and Microcontrollers
- Burn in testing

WHAT'S INCLUDED?

- High Voltage Power Monitor (HVPM)
- Power supply
- 2 alligator clips
- 2 USB cables
- Information card with links to PowerTool software and support documentation

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EMBEDDED SYSTEMS SOLUTIONS

RFcreations
...a different perspective

The moreph software defined radio at the core of our products offers a new perspective for signal measurement, analysis, and generation. A two second boot time, compact footprints, and futureproofing via the use of applications to provide defined feature sets. This allows moreph to evolve from a packet sniffer to a PHY layer tester, to a real-time spectrum analyser with a simple download, you only purchase what you need when you need it!

mini-morephc. capture



Everything, Anywhere, at Any time!
Industry's first Android application for capture of the entire 2.4GHz ISM band. Ultimate portability in the palm of your hand! Simple way to make a capture and share the file to others or a PC to perform detailed analysis in blueSPY.

morephcs. channel sounding



Channel Sounding Physical Layer RF Tester. Validate your implementation now! Used at the BT SIG Channel Sounding IOP Sessions

mini-moreph.



The world's smallest USB powered wideband Protocol Analyser.



moreph30.

A wideband 2.4 GHz signal analyser and generator. Includes a full bandwidth, high dynamic range transmitter, wideband CW source. The moreph30's ultra linear receive and transmit chain will ensure that you never miss a packet!



morephE. etherstore

A RF record/playback option for the moreph30, adds the capability to record and playback the entire 2.4GHz ISM band. Exactly what you need for RF site surveys, spectrum planning, interoperability, and receiver testing.



mini-moreph.

The smallest USB powered protocol analyser on the market! 90mm x 78mm x 20mm and only 110g! Wideband capture of the entire 2.4GHz ISM band. Truly portable sniffing with autonomous capture mode, put it in your pocket today!



blueSPY.

The world's ONLY concurrent multi-standard wideband protocol analyser, blueSPY can be used on both the moreph30 and mini-moreph hardware platforms. With a simple to use UI and support for Windows, macOS and Linux it is the only protocol analyser that you will ever need!

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EMBEDDED SYSTEMS SOLUTIONS

GW INSTEK AUTOMOTIVE ELECTRICAL TEST SOLUTIONS

EV Battery and Charging Station Testing Solutions



RBS Series
Regenerative Bidirectional DC Source

Max. Voltage: 2250V, Max. Output Current: 510A, Auto Ranging
Max Power 15kW (Single Unit), Max Power :150kW (parallel mode)
Battery Simulation, Battery charge /discharge tests



PHU -Series
Auto Ranging High Power DC Source

Power: 5kW/10kW/15kW, Current Max 510A
CC/ CV priority mode, Parallel- 10 Units
Battery Charger/Motor/Converter Testing



AEL-5000/PEL-5000 Series
Programmable AC/DC Electronic Load

Built-in tests for Battery Discharge, BMS, Short circuit, OCP, OPP test modes

Automotive Test Waveforms for ISO16750-2 & ISO7637 Included



ASR-6000 High
Performance AC/DC Power Source

ASR-6000 Series AC/DC 4.5kVA/KW to 24kV/KW Single/Three Phase, 10 Perfect Output Modes, Dual Current Convergence



PSW-Series
Programmable Switching D.C. Power Supply

Broad range (e.g., 30V/36A, 160V/7.2A, 800V/1.44 A),
2 channel (720W), 3 channel (1080W),
High Efficiency,
High Power, 2U, USB & LAN
Applications: LED Driver Testing,
EV Battery Testing & Simulation



GDS- 3102A/3104A
Digital Storage Oscilloscopes

1GHz (Max), 2, 4 channels
Max Sampling Rate: 5GS/s,
200MPts Memory
Spectrum Analysis, Power Analysis,
AFG-25MHz

Automotive Wiring Harness, Electronics Burn in & Aging Tests



GPT-15000 Series
Electrical Safety Analyzer

500VA AC/DC/Insulation Resistance/ Ground Bond/Continuity Test
Comply with IEC 61010-2-034



DAQ-9600
Data Acquisition System

450 channel/s Scan Rate – Temperature, DC/AC volts/current;
Resistance, Capacitance; Frequency & Period



GDM-906x Dual
Measurement Multimeter

12 measurement functions
(DC VIA, ACV/A,
2-wire/4-wire Ω, frequency, period, diode, continuity beeper, temperature, capacitance)

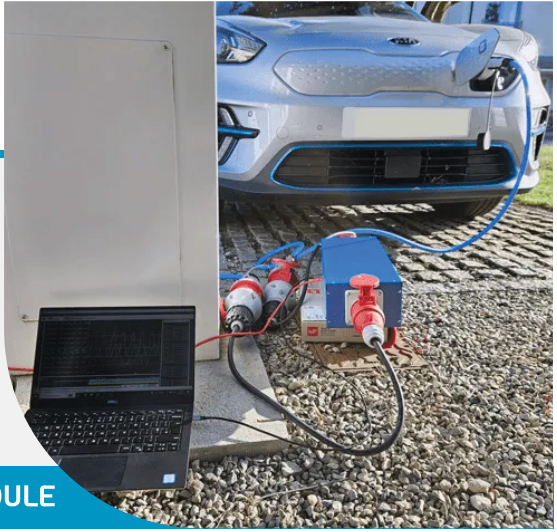
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EMBEDDED SYSTEMS SOLUTIONS

Quarch Technology

HOW TO ANALYZE AN EV CHARGER

EV charging is a complex process. With many different vehicles and chargers, we would expect to see a range of compatibility issues and charging speeds.
Understanding and solving problems requires data, and this is where the 3-phase AC PAM (Power Analysis Module) comes in.



3-PHASE MAINS POWER ANALYSIS MODULE



FEATURES

- Measure 3-phase supplies
- Monitor voltage, current and power
- Capture data in Power Studio or direct to your own files
- Powerful automation option for capture and analysis

This device can capture high resolution AC traces for long periods of time:

- 8,000 Samples per second
- 16, 32 and 63 Amp versions
- Plug-and-play setup
- Manual and fully automated capture options
- PoE powered
- USB and LAN connectivity
- Supports upto 400v AC

QUARCH POWER STUDIO

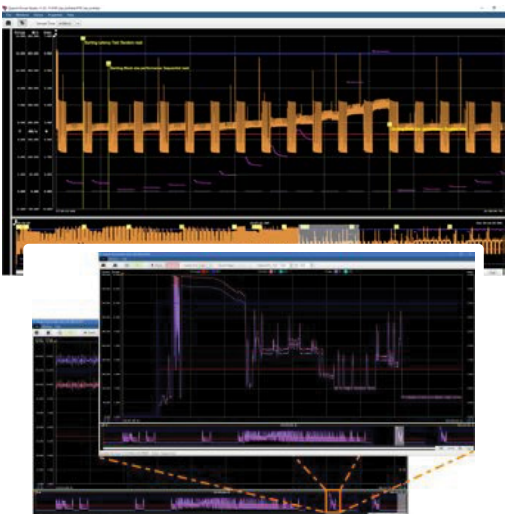
QPS (Quarch Power Studio) allows you to view and capture power data over extended periods of time, and easily analyze the power performance

FEATURES

- Record any length of power trace
- High resolution capture for detailed analysis
- Annotate traces
- Export screenshots and trace sections
- Measure detailed features and view area statistics

TECHNICAL

- Server (QIS)
- Handles multi-gigabyte filesJava based application
- Built on Quarch Instrument
- No additional drivers needed



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EMBEDDED SYSTEMS SOLUTIONS

BOLAB

Arbitrary 4-Quadrant Voltage and Current Amplifiers

Electric Vehicle Test Systems

BOLAB Systems provides unique solutions for electrical tests both for LV and HV standards.

- Low voltage Test Systems For 12, 24 and 48V electrical systems addressing LV 124, VW 80000, VDA 320, ISO 16750, GMW 3172.
- High voltage Test systems for electric vehicles with up to 1,500V electrical systems standards addressing LV 123, VW 80300, ISO 21498,MBN 11123, ISO 7637-4

For testing to these standards, a high voltage power supply, a 4-Quadrant Amplifier System and an Artificial Network are the main elements. All these components are part of BOLAB´s portfolio.

WaveMaster Software

BOLAB WaveMaster Software allows to generate analog signals for the power supplies and 4-Quadrant Amplifiers as well as for recording data for both voltage and current measurements.

LV 123/VW 80300 Test Systems

- ✓ 15 KW - 200 KW systems
- ✓ 15A ... 1500 A
- ✓ Ripple Generator DC ... 500kHz Including Load Dump tests!
- ✓ Automated Tests
- ✓ Prepared for future waveforms due to individual wave-form design graphically and tabular
- ✓ Integration via DLL's into programming languages

LV 124/LV 148/VDA 320 Test Systems

- ✓ 500 W - 18.000 W systems
- ✓ 15 A ...660 A
- ✓ Up to 100 V / µε
- ✓ Starting with 1 kW, modularly extendable up to 18 kW
- ✓ Automated Tests
- ✓ Additional hardware components for E-16, E-18, E-19, E-20, E-21, E-22



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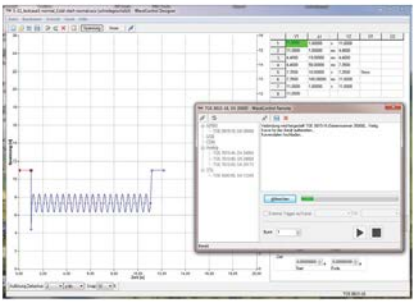
TOELLNER®

DC and Arbitrary Power Supplies Arbitrary & Function Generators 4-Quadrant and Broadband Amplifiers Special Instruments

Comprehensive Test Bench For Automotive Testing

TOELLNER offers flexible solutions for on-board network simulation and testing of components, e.g. for the automotive and avionics industries. The Software WaveControl provides waveforms and controls the TOELLNER system components at the test station, which can be individually tailored to your requirements. Using a DAQ-Card, any signal waveform can be provided with Arbitrary Power Supplies or 4-Quadrant Amplifiers with outputs from 160 W to 5200 W. For fast interruptions, TOELLNER offers electronic switches with switching times below 500 ns.

WaveControl Software includes a comprehensive library of waveforms supporting these standardized automotive industry tests:



The Software WaveControl provides

- Extensive Waveform Libraries for Normative Tests, e.g.
  - LV 124, LV 148
  - VDA 320
  - VW 80000-1
  - VW 82148
  - GMW 3172
  - MBN 10615
  - ISO 16750-2
  - BMW GS 95024-2-1
  - BMW GS 95026
- Import & Export of recorded Data
- Visual Generation of individual Waveforms
- Sequence Controlling and Timing



- Electronic Switch for short interruptions up to 60V / 100A; tr / tf < 500 ns
- 4-Quadrant-Power-Supply up to ± 100 V / ± 40A; > 100 kHz, 320W / 1kW, modularly expandable up to 6,4 kW / 20 kW
- Arbitrary Power Supply up to 100 V / 320 A, AC-superimposition up to 70 kHz, 320 W / 1 kW up to 5.2 kW / 16 kW
- Software to create arbitrary waveforms, an extensive library of normative waveforms included
- All instruments can also be used individually

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engineering
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PRODUCTS & SOLUTIONS FOR AUTOMOTIVE NETWORK VALIDATION

Ensuring accuracy, efficiency, and future-ready development from bench to HIL to Fleet car testing



MediaConverters | Capture Modules | Enhanced Ethernet Switches | Test Benches & HIL Systems | Software Platform

HIGH-SPEED AND DATA INTENSIVE ARCHITECTURE SPRECISION PRODUCTS FOR VALIDATION OF MODERN



Capture Module 10BASE-T1S
Real-Time 10BASE-T1S data capturing and monitoring. Reliable and efficient solution for next-generation 10BASE-T1S technology



Capture Module SerDes
Four SerDes Variants. Three Validation Workflows. One Platform. Capture, replay, inject and validate high-speed data across multiple SerDes ecosystems using a common hardware and software platform.



Enhanced Ethernet Switch MACsec
TSN automotive Ethernet switch with MACsec support. Reliable and user-friendly switch for automotive networks.

	Products	What it's for?	Best used when you need...
	**MediaConverters (MC)**	Physical-layer conversion between Automotive Ethernet and standard Ethernet	Enable ethernet conversion between ECUs and standard tools (PCs/switches) for debugging, validation, and system integration.
	**Capture Modules (CM)**	Non-disturbing network capture across in-vehicle communication domains	One correlated view of IVN behavior across bench, vehicle, and fleet logging
	**Enhanced Ethernet Switches (EES)**	Network connectivity + controllable switching for validation setups	Traffic segmentation, mirroring, and controlled topologies for debug/ validation workflows, time synchronized network with multiple time domains like gPTP & PTPv2
	**Test Benches & HIL Systems**	Customizable validation benches tailored to program needs	Test Bench/ HIL infrastructure that matches your test scope and growth path

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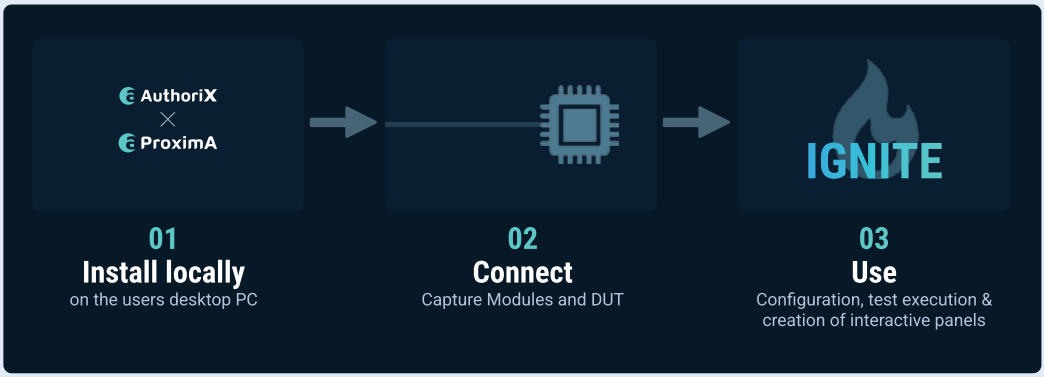
EMBEDDED SYSTEMS SOLUTIONS

technica engineering
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TECHNICA'S AURORA TEK SOFTWARE | IGNITE

IGNITE enables engineers to create, configure, execute, and debug test cases from the earliest stages of development. By combining test authoring, hardware configuration, protocol access, and execution into a single workflow, teams can shift validation left and discover issues earlier in the development lifecycle.

IGNITE | Validate SDV behavior from your first line of code.



Validate Earlier

Author and execute test cases from day one of development, enabling earlier defect discovery and reducing downstream rework.

Author Once, Run Anywhere

Execute the same test logic across desktop, virtual, and HIL environments using a consistent validation workflow.

Reduce Hardware Dependency

Validate software behaviour before full bench availability through desktop and virtual validation approaches.

Comprehensive SDV Test Coverage

Support functional, performance, security, protocol conformance, diagnostics, gateway, and time-synchronisation testing across modern vehicle architectures.

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EMBEDDED SYSTEMS SOLUTIONS



Professional Windows® Software for Monitoring, Analyzing, and Simulating CAN CC, CAN FD, and CAN XL Buses

CAN XL Support

PCAN-Explorer 7 can handle the new structure of CAN XL message frames and shows the corresponding information chunks.

Python Scripting

PCAN-Explorer 7 now supports Python scripting language. With Python you can access the full Object Model of PCAN-Explorer 7 and create small automation tasks for your daily work in CAN environments.

Fine-Graded Trace Playback

With PCAN-Explorer 7 now while you can playback a CAN trace, we can also go through the CAN messages in meaningful chunks using breakpoints. You can even single-step through the trace files.

Apply Multiple Symbol Files

With PCAN-Explorer 7, now it is easy to add a new device along with new CAN message definitions by just applying the necessary additional Symbol file. It is not necessary to merge the new definitions into an existing file like in PCAN-Explorer 6.

Enhanced Licensing

PCAN-Explorer 7 offers flexible licensing options, including the new **floating licenses** for your enterprise environment. Dongle and machine based Single-user licenses are also available.

J1939 FD Support

With PCAN-Explorer 7 you can take advantage of analyzing J1939 FD traffic with PCAN-Explorer 7 and its J1939 Add-in

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EMBEDDED SYSTEMS SOLUTIONS

PCAN – Explorer 7

Professional Windows® Software for Monitoring, Analyzing, and Simulating CAN CC, CAN FD, and CAN XL Buses

Connection to CAN CC / CAN FD / CAN XL
- Connection with up to 64 buses, independent of their CAN specification
- Simultaneous connections with multiple CAN interfaces independent of their hardware type
- Support for the CAN specifications CAN CC (classic CAN 2.0), CAN FD, and CAN XL (ISO 11898-1:2024)

Reception and Transmission
- Display of CAN traffic in sortable receive and transmit lists with various information like ID, length, data, time-outs, message count, and cycle time
- Highlighting of data changes on incoming CAN messages in Receive and Watch windows, applies to raw values and symbolic representation
- Error frame indication can be activated for each connection
- Display of connection‘s receive, transmit, and error states
- Messages can be grouped as transmit lists, stored and loaded as desired, e.g., in order to emulate CAN nodes

Symbolic Representation
- Clear and readable representation of CAN messages based on the Symbol format from PEAK-System:
- Signals are used for data presentation and processing by add-ins such Plotter and Instruments Panel
- Direct application of third-party data description files (.dbc, .arxml) with the Bus Descriptions Add-in

Recording
- Trace function for logging of CAN data traffic, optionally along with errors
- Saving of the logged data as readable TRC text files or CSV files
- Conversion of saved recordings to third-party file formats like MDF4 and ASC with the free PEAK-Converter
- Representation of the logged messages with details such as time stamp, type, ID, length, and data bytes
- Subsequent examination of the logged data with the help of Symbol files

Playback
- Playback of CAN data traffic directly from files or from the buffer
- Operation of multiple playbacks to different CAN channels at the same time
- Optional playback with breakpoints or in single-step mode for in-depth analysis
- Playback of a specified section of a recording
- Playback of third-party file formats like BLF and MDF4 by using the free file conversion tool PEAK-Converter

Add-Ins
- Plotter
- Instruments Panel
- Bus Descriptions
- J1939

PEAK BY HMS NETWORKS

Leading provider of hardware, software, and services for automotive and industrial communication with emphasis on the fieldbuses CAN, CAN FD, CAN XL & LIN.

Ixxat Mobilizer
Flexible Automotive Gateway Solution





PCAN-USB X6



CAN & CAN FD Interfaces



MU-Thermocouple1 CAN FD



PCAN-Chip USB



PCAN-GPS Pro FD



PCAN-MicroMod FD ECU



PCAN-PCI Express FD



PCAN-Diag FD

PCAN-Ethernet Gateway FD



CAN/CAN FD/CAN XL/LIN Interfaces

- Single, Dual and Six channels interfaces for CAN/CAN FD/CAN XL/J1939/J1939 FD/LIN Protocols
- Complies with CAN specifications 2.0 A/B and FD, XL
- CAN/CAN FD bit rates for the data field (64 bytes max.) up to 12 Mbit/s
- CAN XL supports transmission of up to 2048 bytes payload data per message and data bit rates of up to 20 Mbit/s
- LIN interfaces are compliant with all LIN specifications (up to version 2.2) and can be used as a LIN master or slave

CAN Analyser: PCAN Explorer 7

- Recording and Playback of CAN/ CAN FD/CAN XL/J1939/J1939 FD traffic
- Improved, Scalable UI based on Vector Graphics
- Enhanced Trace Handling with Single Step Playback and Break Points
- New Database Creation, support for several Data bases per CAN connection
- Import/Export existing DBC & ARXML files
- Plotter, Instruments Panel Analysis Support
- J1939 Add-in enhanced with J1939 FD support
- Automation with Python
- Cost effective with flexible Licensing Models

Diagnostic Tools: CanEasy Professional

- Protocols: CAN/CAN FD, LIN, J1939
- Diagnostic functions: UDS, KWP2000, XCP/CCP
- ECU Simulation & Analysis
- Graphical Interface: Rich Panels and Database Editors (ARXML, DBC, LDF, CDD, ODX, PDX & A2L/ELF files)
- Plug & Play: Supports all PCAN, Ixxat and other Third-Party Hardware
- Automated Testing: Supports Python, CAPL, JavaScript, VB, C# scripting

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