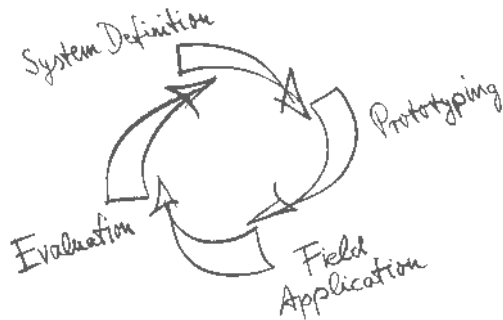


# CAN System Test & Design Tools

I+ME's System Test & Designs Tools support all user application phases:



Tools like CAN Analyzer and CAN Emulator are PC-based tools, used to verify transmission performance in an operational CAN-based networked system.

Additional high-end tools (like Evaluation Boards and the ruggedized, portable network tester) are available.



## FEATURES

- Supports various user application phases: learning, prototyping, testing and evaluation of networked systems (see StarterKit).
- Supports a 1Megabit/second datarate (CAN maximum)
- Ruggedized, mobile, and viable alternative to PC based analysis systems (see NetTest III+).
- Enables real-time system modeling, monitoring and testing of Basic- and Extended-CAN network under Windows 9x, NT and Windows 2000..
- Real-time simulation of message transfer characteristics in BasicCAN, ExtendedCAN. (see PowerCAT).

## HIGHLIGHTS

- PC tools for CAN, J1850 and ISO9141 interfacing
- Available for different CAN and J1850 protocol chips
- Continuous support from basic hardware and software up to high-end/high-performance test and development tools
- Consistency in network timing results
- Quick installation, easy to handle
- Includes complete documentation

## PRODUCT OVERVIEW

### StarterKit:

- Enables step-by-step "learning-by-doing" with a complete application for initial and more advanced projects with automotive protocols
- Consists of a standard PcNetBoard and two standard EvaBoards available with 80C552, 80C196, 68HC11, 80C166, C167C microcontrollers
- Supported protocols are: BasicCAN/FullCAN, StandartCAN, ExtendedCAN, J1850-DLC and J1850-HBCC
- Includes: Windows software, cabling, power supply, demo software, demo sensors/actuators, tutorial software, and complete documentation

### NetEvaBoard:

- Microcontroller board for automotive protocols
- Application area focuses on real-time process control with/without intercommunication through a network, stand-alone controller operations and/or PC-controlled operations
- EPROM includes operating software
- User-specific application software can be down-loaded via RS232 from the PC
- Power supply: external 8...30 VDC, with on-board voltage regulator
- Different microcontroller types are available (8/16 bit)
- ISO 11898-compliant physical line driver
- Reset switch

### PowerCAT

- Supports the automotive network management of IVLAN and GMLAN
- Gives the possibility to implement several type of in- and outputs in the simulation process, 8 x analogue in, 8 x squarewave in, 4 x PWM in, 16 x digital in, 8 x sinus out, 8 x analogue out, 8 x squarewave out, 4 x PWM out and 16 x digital out
- The I/Os can be wired with a SUB-D connector on a separated PC board or with an I/O box for desktop using
- Free task programming with maximum 5 ms run time for the tasks
- Comfortable step by step offline analyzes are supported with the help of the Post Processing Modul

## PRODUCT OVERVIEW

### CAN NetEmulator (DOS):

- Used as a real-time message load generator for simulation of transfer characteristics in networks with automotive protocols
- Requires a PowerPcNetBoard
- Able to display on-line statistics and off-line tracing and statistics
- Continuous on-line graphic display of up to four data channels
- Data display in bit-resolution at 1 MBit/sec transferrate and 100% bus-load
- Complete modeling of data process model
- Easy modeling of message transfer by time and event-driven generators

### NetTest III+:

- Universal hand-held tester for diagnosing and configuring CAN-based network components
- LCD module (64 x 128 pixel resolution) for bus traffic visualization
- PCMCIA interface for memory cards to store longer communication sequences and larger amounts of data
- Rugged, mobile and stand alone based analysis systems alternative to PC
- Various filter and trigger options implemented
- Universal hardware platform for industrial and automotive diagnostics (adaptable to J1939)

### PcCANControl:

- Easy to handle software application to display the data exchange on the CAN field bus
- Uses all advantages of the 32-bit operating system
- Exports all traced CAN messages into a file
- Supports CAN 2.0A and CAN 2.0B protocols
- Enables simple system modeling, and networked system testing as well as application support
- Supports all I+ME ACTIA PcInterfaces
- ASCII export of data for spreadsheet analysis