

VT System

Modular Test Environment for Efficient ECU Tests

What is VT System?

- > High-performance modular test system for comprehensive ECU testing. CANoe is the associated test automation software.
- > Dedicated test system for individual ECUs and networks
- > Universal function and HIL tester
- > Flexible test hardware for the developer's work station and big test racks

Functions

- > Switching various signal paths
- > Fault injection, e.g. short-circuits between signal lines, to ground or battery voltage
- > Simulation of loads and sensors
- > Measurement of ECU signals inclusive signal conditioning and pre-processing
- > Stimulation of ECU inputs
- > Status display on the front panel
- > Plugs for manual measurements at the front panel

Overview of Advantages

- > All relevant test functions are integrated in the modules:
 - > I/O interfaces and measurement hardware
 - > Relay switches
 - > Dedicated test functions (decade resistor, electronic load, ...)
- > Minimal cabling effort for test setups
- > Voltage range and electrical characteristics for automotive applications
- > Seamless integration into CANoe



Fully equipped desk rack of the VT System – up to twelve modules and one backplane fit in a 19-inch rack.

Hardware-Modules

VT1004A*	– Load and Measurement Module
VT2004A*	– Stimulation Module
VT2516A*	– Digital Module
VT2710	– Serial Interface Module
PSI5SENTpiggy	– Piggyboard Module for VT2710
VT2816*	– General-Purpose Analog I/O Module
VT2820	– General-Purpose Relay Module
VT2848*	– General-Purpose Digital I/O Module
VT6011/VT6051A	– Real-time Modules
VT6104A	– Network Module (CAN, LIN, J1708, CAN FD, K-Line)
VT6204	– Network Module (CAN, LIN, J1708, CAN FD, K-Line, FlexRay)
VT6306	– Ethernet Network Module
100BASE-T1piggy 1101	– Piggyboard Module for VT6306 (six 100BASE-T1 channels)
VT7001A	– Power Supply Module
VT7820	– Rotation Sensor Module
VT7870	– Smart Charge Communication Test Module
VT7900A*	– Extension Module

* optionally available with user-programmable FPGA

Housings and Backplanes

- > 19-inch desktop case
- > 9.5-inch desktop case
- > 19-inch subrack
- > VT8006A: Backplane for 6 modules (for 9.5-inch racks)
- > VT8012A: Backplane for 12 modules (for 19-inch racks)

Integration into CANoe

- > Automatic detection of the modules of a connected VT System
- > Easy configuration via specific dialogs in CANoe
- > Management of the entire VT System in CAPL, .NET and XML test modules
- > Access to all measurement and stimulation signals
- > Measurement signals are displayed in the Analysis windows and the Logging Block of CANoe

All about VT System: www.vector.com/vt