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/Measurement Module (40 V)
- VT1104 – Load/Measurement Module (60 V)
- 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
- VT2832 – Switch Matrix 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)
- 1000BASE-T1piggy 88Q2112 – Piggyboard Module for VT6306 (six 1000BASE-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