

XMOVE, PREVAS ECU TEST CONCEPT

The xMove concept contains standardized processes and components in order to provide a customized system for test or simulation of industrial and automotive electronics.



APPLICATIONS:

- Functional and performance testing
- HIL simulation (real-time testing)
- Production and repair test

OUR SOLUTION

The xMove concept contains standardized processes, parts and components for the testing of electronic control units (ECU).

Prevas solution uses standard PC technology with real-time or Windows OS.

Our hardware is based on commercial components combined into a system for testing a single ECU or a network of ECU's. The larger system distributes the I/O and can be scaled to test up to 25 ECUs (>2000 signals).

Today 40 xMove test systems are in use in over 4 continents.



LARGE SIZE



MEDIUM SIZE



SMALL SIZE

SOFTWARE

xMove software components and modules supports National Instruments' platforms TestStand and VeriStand, executed on Windows XP/7/8 hardware or using LabVIEW real-time targets. For customer specific solutions, we offer our software platform Viking, in order to avoid software development from scratch.

xMove platform may also be integrated with dSpace systems or other software platforms.

HARDWARE

Interfacing the ECU's physical signals is a challenge when providing a test system, as many signals require customized signal conditioning. This may be due to signals that are unique or equipped with built in test functions. The signal conditioning may also change due to ECU software changes.

Xmove addresses those challenges and we solve them by use of standardized components, such as our GOBI board, in combination with exchangeable loads and flexible I/O.

GOBI board

Prevas' Gobi board provides signal conditioning and fault insertion. Digital signal conditioning is built-in and analogue signal conditioning is provided by adding single channel modules. Standard modules like amplifiers, attenuators and computer controlled resistors can be combined with customized modules. The fault insertion functions are both simple (to GND and VSS) and advanced, using injected signals (requires additional instruments).

For detailed information, see our datasheet of the Gobi board.

Exchangeable load

The ECU output loads need, in many cases, to be tuned for each variant of the electronics. We have placed those loads separately for easy replacement, making the system flexible for different configurations.

Flexible I/O

Our preferred I/O solution is the C Series modules from National Instruments (NI). The modules provide a robust and flexible solution and can be combined with NI's FPGA for advanced signal conditioning.



National Instruments C Series modules



Gobi Board

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