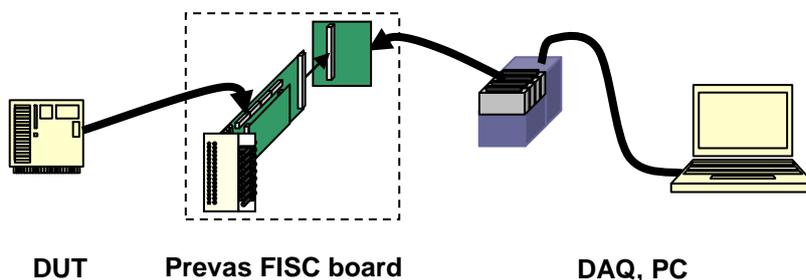# Test System Platform Mini

Prevas Mini can be used in several ways. The two most common are:
- The Mini in combination with I/O used as a independent complete test system.
- The Mini providing a flexible solution to add fault insertion and signal conditioning (FISC) capabilities to existing test systems.

The platform is optimized for signals used for controlling machines, robots and vehicles.

DUT   **Prevas FISC board**   **DAQ, PC**

At the heart of the Mini platform lay Prevas FISC board (see separate data sheet). Providing effortless connection of signals between the Device Under Test (DUT) and the DAQ.
And in between the DUT and DAQ providing fault insertion, LED indication, break-out panel and a piggy-back PCB area for custom signal conditioning and loads.

Application areas

- Unit test
- HIL testing
- Maintenance and repair test
- Robustness and safety test

Design guidelines

A Prevas test system follows the design guidelines of open and modular architecture.
Open architecture gives the customer full access to the system to make any change.
Modular architecture ensures the systems to be easy maintained and adaptable to change.
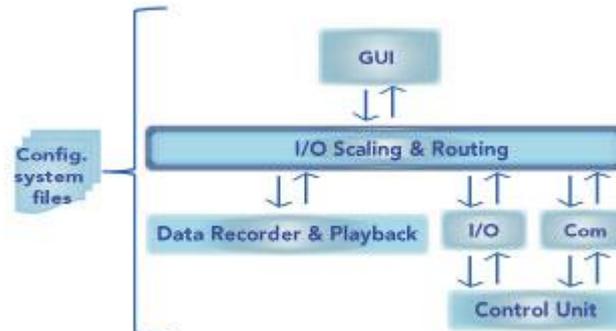
Software

The Mini system is compatible with Prevas software platform Viking. The Viking platform is designed for measurement and control system, designed according to open and modular guidelines.

The Viking platform is highly reconfigurable and not bound to a specific type of I/O, or a specific type of Graphical User Interface (GUI) layout, as this changes from project to project.

Built-in scaling and routing supports the user to focus on testing functions and behaviors instead of voltages, bit patterns and connector pins. The Viking platform supports recording and playback of data.

Via a plug-in to the Viking platform the system can be upgraded to a HIL-system, supporting real-time execution of models written in LabVIEW, C, C++ or Simulink

The Viking platform has full support for automatic testing with use of test sequences in TestStand or other tools.

Technical specification:

16 channels (signals), 60V/10A
 24V supply using external 110/240V adapter