

NEXT GENERATION FUNCTIONAL TEST



“Building custom Functional Test equipment use to be a difficult and time consuming part of my job - not anymore”

The **Scorpion Fault-Finder** test system combines both ICT and Functional Test capability into a single “bed-of-nails” test platform. The system is designed to be the low-cost alternative to traditional PC-based test equipment. The Operator simply installs the DUT (device-under-test), press the START button and quickly receive Go/No-Go test results.

Instrumentation & Customization

The Scorpion employs (Oi) Embedded Test Controllers to manage all aspects of the test process (including Operator input/output, controlling test instruments, acquiring test measurements, data logging and processing Pass/Fail results). To accommodate most test functions (such as signal stimulus, measurement, switching, interfacing and control), (Oi) offers a wide range of general purpose instrument modules. These instruments are board-level products that include Analog I/O, Digital I/O, Signal Switching and Special Function modules. In addition, there is ample space available within the Scorpion to include custom circuits, power supplies and other support components. The “bed-of-nails” section is sturdy and rigid, and can accommodate a large number of spring-probes. The fixture includes a unique “anti-flap” design which prevents the DUT from tilting when the over-clamp is engaged.

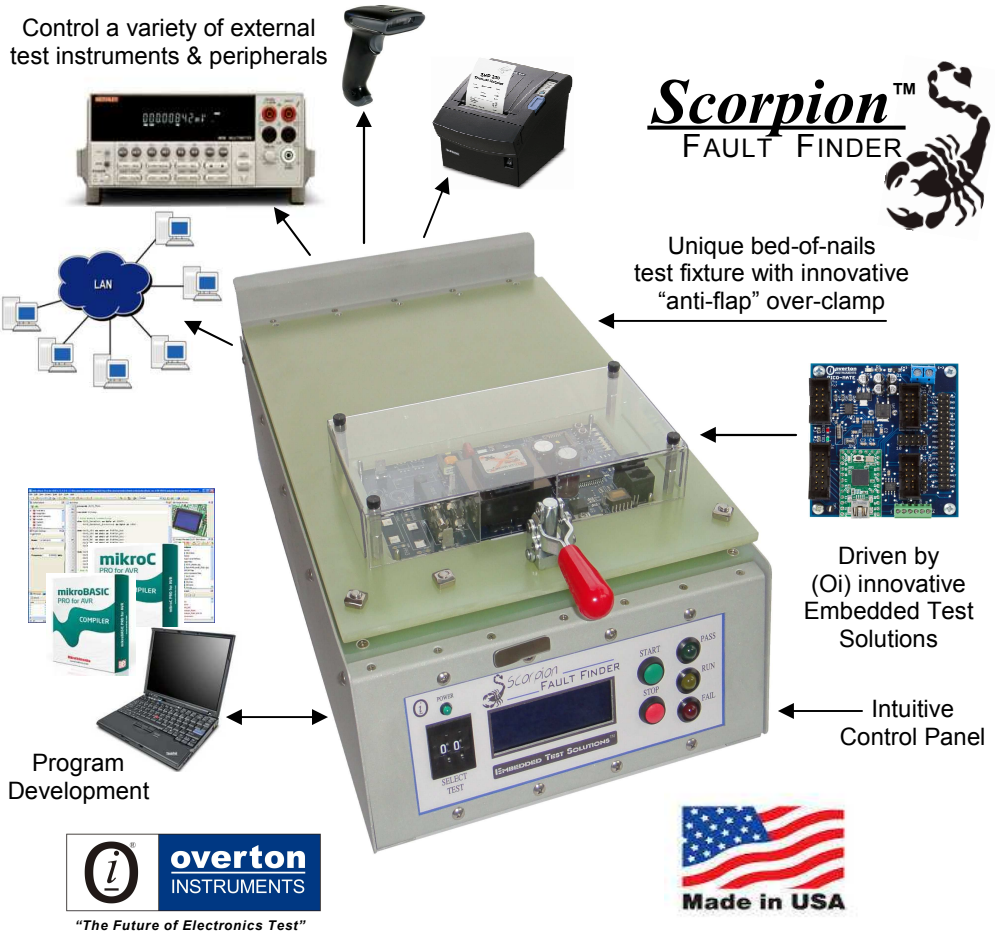
Software Development

Programming the Scorpion is both simple and fast. Low-cost compilers are available in 'C' and BASIC, and both are supported by TES-MATE™ (Test Executive Suite™). TES-MATE is a comprehensive library of software routines, support utilities and (Oi) instrument drivers that allow the programmer to take full control over all of the hardware resources the Scorpion Fault-Finder has to offer.

Application Support

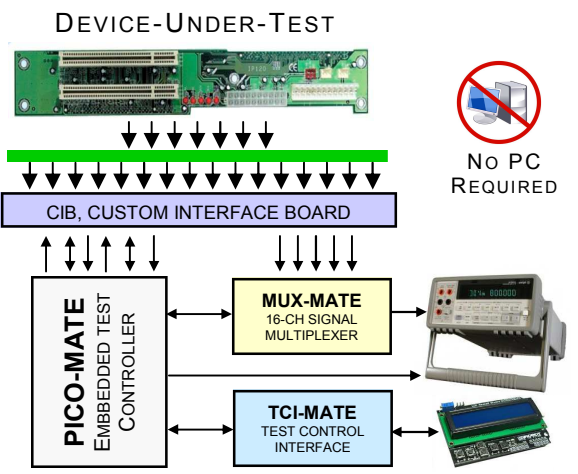
Save precious time and resources, by letting our experienced Test Development professionals build a complete “turn-key” Functional Test solution for you, based on the Scorpion Fault-Finder test platform.

Control a variety of external test instruments & peripherals



SYSTEM BLOCK DIAGRAM

The diagram on the right shows a typical PCB Functional Test configuration based on the Scorpion test platform. The Mux-MATE is used to route test points on the DUT, to the external DMM. The Pico-MATE, Embedded Test Controller, manages the entire test process, it determines Pass/Fail and logs the test results. The CIB is a custom PCB that houses any special support hardware (i.e., signal conditioning, logic translators or analog buffers). Other (Oi) instruments can be easily added as needed.



BENEFITS

- Fully automated Go/No-Go test solution - No PC Required
- Performs both ICT and Functional Test
- Fast execution, with greater test coverage and robust fault-isolation
- All in one, “bed-of-nails” platform that is easy to program, configure, operate and maintain
- Low cost alternative to traditional PC-based test equipment
- Occupies minimal desk space
- Fixture base 100% reusable

APPLICATIONS

- Test Digital, Analog, RF, Microwave & High Voltage circuits
- Include semiconductors, hybrid modules, PCB's, panels or box-level units
- Use in Engineering, Manufacturing, QA/QC Reliability & Depot Repair

FEATURES

- Highly integrated package of hardware, all designed to satisfy the broadest range of Functional Test applications
- A well-organized front panel with a intuitive set of controls and indicators
- A wide array of standard interfaces (SPI & I²C, USB, RS232 and Ethernet)
- A powerful set of Embedded Test Controllers - the Pico-MATE and Micro-MATE
- A unique collection of Embedded Test Instruments such as the DUT-MATE (DUT Power Sequence Module), Switch-MATE (8-Ch SPST Relay Module), DIO-MATE (16-Bit Digital I/O Module) and a host of others