Seica

Test Solutions

MINIATE

IN CIRCUIT & FUNCTIONAL TESTER

NEXT SERIES

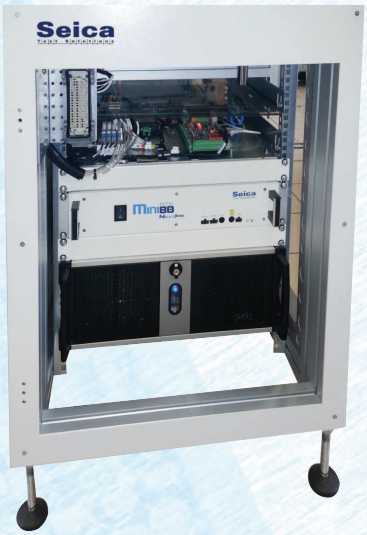
www.seica.com

MINI NEXT› SERIES LINE

small-sized ATE with great potential

In most manufacturing environments, the requirement of small size, portability and integration now also involves the automated test systems or ATE (Automatic Test Equipment).
For this reason, SEICA has created the new MINI NEXT› SERIES LINE small-sized ATE, but with great potential in the different operational environments, combined with a very competitive price/performance ratio.

THE "POWER" OF A COMPLETE ATE



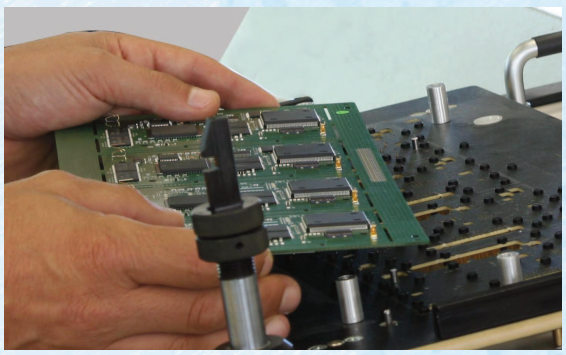
With Seica's 25+ years of experience, SEICA has created a wide range of hardware/software modules.
Today, this expertise can also be used in the systems of the MINI line, which are suitable to implement and manage different stages of testing:

- ⇨ In-circuit test
- ⇨ Functional test
- ⇨ On-board programming
- ⇨ Boundary-Scan test

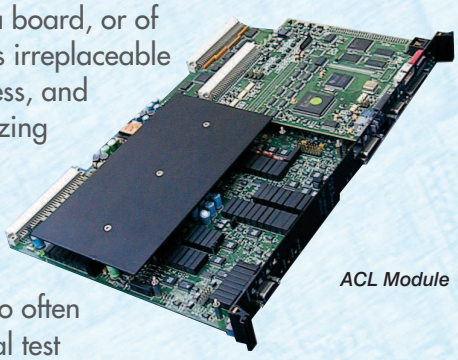
Within the space available, your system can be configured using standard modules of proven reliability. The modules can be easily removed for rapid maintenance.
Then, aiming to facilitate and streamline the interfacing with any fixture receiver, all the test resources are available via connectors and patch panels if desired
The choice to implement a solution based on a standard 19" chassis rack enables the use in a stand alone mode, but also an easy integration in existing cabinets and structures.

THE DIAGNOSTIC "ACCURACY" OF TESTS

For multiple reasons, the market of electronics manufacturing is changing and challenging the advantages of the in-circuit test, and its ability to test all the components on the board for their correct value and placement. In Seica testers, through a simple program, made fully automated if the CAD data is available, it is possible to create an in-circuit test and provide an accurate diagnostic, thus achieving two unquestionable benefits: **reduction of repair time/costs and improved product quality.** One can see the superior advantage of this approach since the coverage of end-of-line testing is not absolute. All of that is available on MINI line testers.



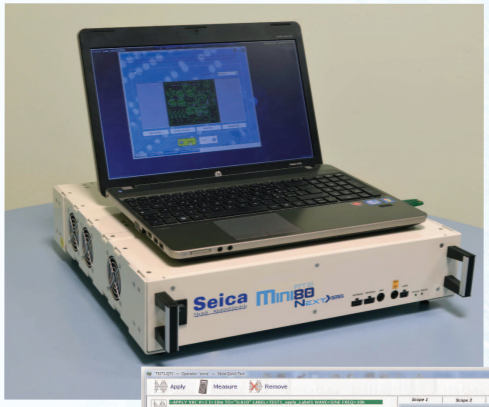
THE "WARRANTY" OF FUNCTIONAL TEST

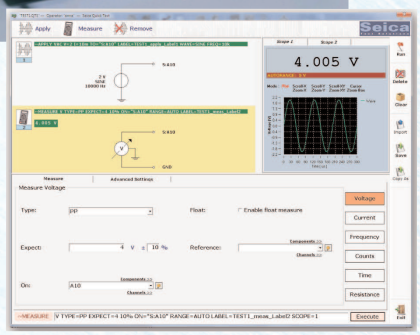


ACL Module

The functional test of a board, or of the finished product, is irreplaceable in the validation process, and often includes customizing steps such as programming and calibrations which are equally relevant.
Even the designer, who often implements the original test benchmark, might benefit from a standard but flexible platform.
MINI 80 and MINI 200 NEXT› SERIES are intended as the **"core" of your functional tester:** a wide range of integrated instruments, switching matrix and user power supplies are a very useful platform to develop your customized test benchmark.
The user has broad discretion in the choice of configuration, from the programming software, which may be third-party's like National Instruments ©, up to the opportunity to drive any type of off-the-shelf tool.
Additionally, with respect to self-manufactured equipment, a manual and a diagnostic program are always supplied, which guarantees the comprehensive maintainability of the system.

The "compactness" of a truly integrated solution



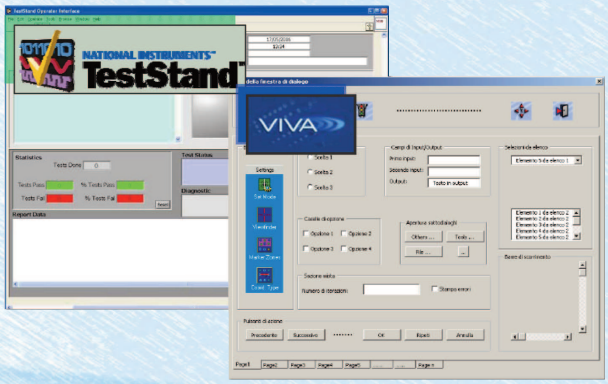


The market contains a wide offer of tools, and solutions in a variety of technologies and package sizes… such as, VXI, PXI, GPIB and LXI in standardized or custom cabinets with different software platforms.
However, all of these solutions lacked the ability to be called an "ATE" for very serious reasons explained below.
It is necessary to purchase the different components and to set up a test benchmark, hoping to interpret future needs, and invest valuable time in the implementation and drafting of the design documentation.
Specifically, with this ATE line, SEICA meets the needs of commercial solutions available where the integration activity has been developed by the manufacturer, integrator, or OEM.

The MINI NEXT› SERIES platform already includes the essential components of a modern general purpose ATE.

Its architecture, based on VIP platform, may host, among other, the ACL module. The ACL module provides a wide set of basic equipment made available on the system bus, along with different models of a switching relay matrix. These are also wired on the system bus, and are capable to address the signals to drive the unit under test or to carry out measurements.
The software environment is based on the VIVA proprietary solution, which empowers the user to perform in-circuit and functional tests, often combined: and that's no small feat!
Within VIVA, the functionality, QUICK TEST, guarantees a fully-graphic management of drive and sense system tools.

The "flexibility" of a truly OPEN test platform



Another difficult issue to cope with in the proprietary ATEs is the poor flexibility of use, since the testers are very effective for a specific application, but not really versatile or prepared for communication with the outside world.
In the **ATEs of the MINI series, the concept of "open system" is extensively available:**

- the system resources (tools, matrix, power supplies) are equipped with drivers enabling their control via off-the-shelf software (LabView©, TestStand ©, Visual Basic ©).
- the on-board programming is performed both with a Seica universal module and by managing off-the-shelf programmers
- Boundary-scan tests are executed on the best-known products on the market; the ATE allows you to streamline the implementation of the test bench, powering the board under test and autonomously carrying out the test of the circuit blocks where Boundary-scan access is not available
- acquisition boards and cameras are managed for the most varied automated optical inspection requirements
- any type of off-the shelf equipment is driven with different communication protocols (IEEE, RS232; USB, …)
- reading of board barcodes is managed and data are collected on test and repair activity; these are provided in readable format for statistical purposes.

Industry 4.0

Information and the technology needed to collect and analyze data, is key to the successful digitalization of the manufacturing process, which is at the heart of the **Industry 4.0** concept.
The MINI NEXT› SERIES LINE has all of the capabilities needed for implementation in any **Factory 4.0** scenario, providing the possibility to plug in any proprietary or third party information system to achieve the desired goals.

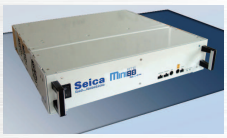
Global Support Network

Thanks to the global extension of Seica and its subsidiaries, Seica can ensure local service support wherever the customer needs it, in addition to 24-hour telephone assistance.

A "solution" for every requirement

The Mini Line line consists of 2 scaleable systems, Mini 80 and Mini 200, which can be equally configured and used to meet your unique requirements.

SYSTEMS COMPARATIVE TABLE

Systems	Mini 80	Mini 200
		
Syst. Architecture VIP Platform (ACL-VIVA)	VIP Platform (ACL-VIVA)	
PC Main features Integrated tools:	External to the system 3 AC/DC independent drivers with Signal generator programming AC/DC current and voltage meter 2-channel Counter/timer up to 10Mhz Integrated Pull-Up/Pull-Down resistors 4 bi-directional digital channels	Internal to the system 3 AC/DC independent drivers with Signal generator programming AC/DC current and voltage meter 2-channel Counter/timer up to 10Mhz Integrated Pull-Up/Pull-Down resistors 4 bi-directional digital channels
Hybrid channels scalability	192 [1]	640
Power I/O integration	Yes	Yes
Power supply scalability User (programmable in Voltage and Current)	1 power supply integrated (0/30V, 0-/1.2A) system external power supplies optional	Up to 2 power supplies: AP5: Linear 0-6V/0-6A, 0-18V/0-2A, 0-18V/0-2A AP6: Linear 0-6V/0-6A, 0-30V/0-1.2A, 0-30V/0-1.2A Other programmable and fixed supplies are available
Scalability for functional test	Yes	Yes
On-Board Programming Capability	Yes	Yes
Boundary Scan test option	Yes	Yes
Optical inspection option	Yes	Yes
Integration with third-party automation	Yes	Yes
Receiver fixture [2]	Not included	Not included
Compressed air [3]	Not required	Not required
Dimensions and connections	Width: 441mm (17.4") Height: 86mm (3.4") Depth: 424mm (16.7") 19'' rack compatible Weight: 15 kg (33 lbs) Noise: not exceeding 70 db Power Supply: 230 V -10% +15%, 50-60 Hz single phase Consumption: 500W	Width 435mm (17.1") Height: 220mm (8.7") Depth: 600mm (23.6") 19'' rack compatible Weight: 29 kg (64 lbs) Noise: not exceeding 70 db Power supply: 230 V -10% +15%, 50-60 Hz single phase Consumption: 500 W

1) 512 with expansion.
2) Can be included as an option.
3) Air not required unless receiver option selected and requested.

Seica reserves the right to change any technical specification without notice

NEXT SERIES

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