Seica

IN-CIRCUIT and FUNCTIONAL TEST

ON-BOARD PROGRAMMING

BOUNDARY SCAN TEST

Seica VIVA NEXT

IPC CFX Compliant

www.seica.com

Mini LINE

IN-CIRCUIT AND FUNCTIONAL TEST

NEXT SERIES

MINI NEXT> LINE
small-sized ATE with great potential

In order to meet the requirements of small footprint, portability and integration, **SEICA** has launched the new **MINI NEXT> Series line**, a small-sized ATE with great potential in testing environments, combined with a very competitive price/performance ratio.

THE "POWER" OF A COMPLETE ATE

The **MINI LINE** systems 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, a customized test system can be configured using standard modules of proven reliability. All the test resources are available via connectors and patch panels if desired in order to facilitate and streamline the interfacing with any fixture receiver.
The choice to implement a solution based on a standard 19" chassis rack enables the use in a standalone mode, but also an easy integration in existing cabinets and structures.

THE DIAGNOSTIC "ACCURACY" OF TESTS

The new **MINI NEXT> Series line**, like all **SEICA**'s systems, is based on **VIVA NEXT>**, which is a **SEICA** proprietary Software. **VIVA** is capable of automatically generating the in-circuit test programs simply importing CAD data into the Software. Thanks to the accurate diagnostics, **reduction of repair time/costs and improved product quality.**
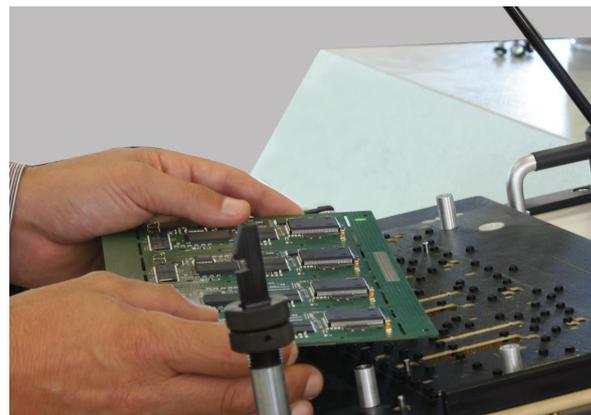
THE "COMPACTNESS" OF A TRULY INTEGRATED SOLUTION

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.
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> 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. Within **VIVA**, the **QUICK TEST** option, guarantees a fully-graphic management of drive and sense system tools. In the Quick Test environment, it is possible to perform all the actions typically executed with a set of bench instruments, to perform a simple functional test without any knowledge about ATE instruments. With the **MYVIEW** option, it is possible to customize the user interface with different layout and languages, specifically dedicated to the Production line's requirement. **MY VIEW** is more than a simple graphical user interface; it allows the customization of the graphical interface in terms of command layout, label languages and system messages. Moreover, it runs the diagnostic test on the system.
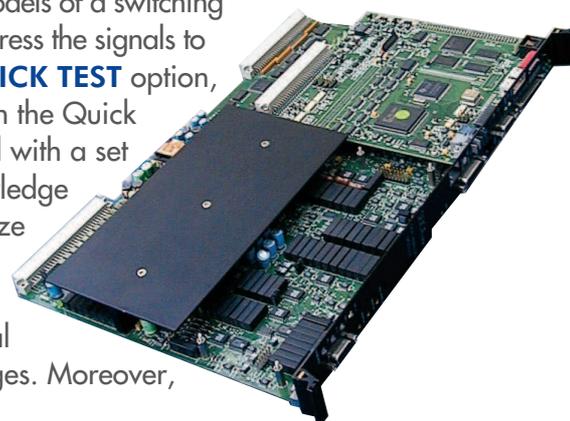
THE "WARRANTY" OF FUNCTIONAL TEST

Mini 80 and Mini 200 NEXT› 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. Moreover, in case of maintenance, the operator extracts one machine (which has a productivity one in our example) at a time from the Test Island.

THE "FLEXIBILITY" OF A TRULY OPEN TEST PLATFORM

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**©).
⇨ on Board Programming [OBP] performed either with a Seica universal programmer or third-party programmers.
⇨ Boundary-scan tests
⇨ acquisition boards and cameras available for optical inspection
⇨ different communication protocols (IEEE, RS232; USB)
⇨ Barcode Reasing.

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.

	Mini 80	Mini 200
Syst. Architecture	VIP Platform (ACL-VIVA NEXT)	VIP Platform (ACL-VIVA NEXT)
PC	External to the system	Internal to the system
Main features	3 AC/DC independent drivers with	3 AC/DC independent drivers with
Integrated tools:	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

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> 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.

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ON-BOARD PROGRAMMING

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Seica VIVA NEXT>

24H
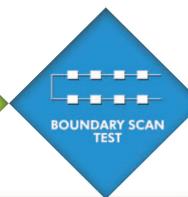
GLOBAL SUPPORT NETWORK

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.

Seica

SEICA WORLDWIDE

SEICA SpA
via Kennedy 24
10019 Strambino - TO - ITALIA
Tel: +39 0125 6368.11
Fax: +39 0125 6368.99
E-mail: sales@seica.com

PROXIMA S.R.L.
E-mail: info@proximasrl.eu

SEICA Inc.
E-mail: DavidSigillo@seicausa.com

SEICA FRANCE SARL
E-mail: dupoux@seica.fr

SEICA DEUTSCHLAND GmbH
E-mail: marc.schmuck@seica-de.com

SEICA ELECTRONICS (Suzhou) Co.Ltd.
E-mail: seicachina@seica.com

www.seica.com