



Advanced semiconductor test technology and solutions



Our customers' innovations transform the way we live, work and play.  
Our innovations help them deliver.

Combined innovations, brilliant results.



## We are Verigy

Verigy designs, manufactures, sells, and services advanced analysis tools, test systems and solutions for the semiconductor industry. Building upon our proud heritage – the roots of Hewlett-Packard Company and the strengths of Agilent Technologies – we work closely with our customers to help lower their cost of test and improve their overall competitiveness. We will continue to deliver our solutions and services globally with world-class professionalism, expertise and integrity – so our customers have an outstanding total experience with Verigy. Our goal is to be regarded by our customers as a valued extension of their research and development, manufacturing and supply chain teams, helping them to lower overall cost of test and increase yield while getting to market faster.





# advanced **solutions** for semiconductor test

## The Verigy Approach

The world's leading semiconductor companies look to Verigy for advanced analysis tools, test systems and solutions that make their innovations possible.

We enable our customers to deliver the technology that transforms our world through state-of-the-art computing, communications, and consumer electronics products. These complex, highly integrated system-on-chip (SOC) and memory devices are rapidly evolving with new features, better performance and ever-lower price points.

Verigy continues the legacy of innovation which began with Hewlett Packard. We entered the digital integrated-circuit test market decades ago, with the HP 83000, a system that featured the industry's first water cooling and set the standard for high levels of integration to secure a small footprint and low operating costs.

Our early Versatest Series, with hundreds of high-volume manufacturing non-volatile memory test systems

installed worldwide prepared us for success in today's memory market. Our innovation continued as Agilent Technologies with the revolutionary 93000 SOC Series and enhanced Versatest Series test platforms.

Our customers are integrated device manufacturers (IDMs), fabless design companies, wafer foundries, and outsourced assembly and test (OSATs) providers. Today our scalable platform architectures provide significant economic and competitive advantages across the manufacturing supply chain and the product life-cycle, from design validation through high-volume production test. In addition to our future-ready test platforms, Verigy offers world-class technology innovation and delivery backed by outstanding consulting, service, training and support, such as ramp-up assistance and applications development.



**"Considering Verigy's hard work in customer satisfaction, we were not surprised that the company earned the number one position among the world's BEST Test Equipment suppliers. We have been very impressed with Verigy efforts and congratulate all the people there that worked so hard to have their customers rank them THE BEST in Test."**

**G. Dan Hutcheson**  
Chief Executive Officer, VLSI Research



*Our business is designed for success in a fast-paced and dynamic industry*



# innovate



Verigy's innovative approach to semiconductor testing delivers significant benefits to our customers. Designed for scalability and flexibility, our test platforms help shorten time to market, improve yield and lower cost of test.

Scalability across performance and pin count enables the selection of the right test solution for each device. The flexibility to re-configure or tailor the platform as requirements change extends the life of the investment and minimizes manufacturing downtime, lowering the cost of test and the lifetime cost of ownership.

## The Verigy Advantage

### Lower Cost of Test

- Versatile and reconfigurable platforms
- Broad application coverage
- High parallelism

### Improved Yield

- Performance
- Accuracy
- Stability, reliability and repeatability

### Shorter Time to Market

- Faster test flow and program development
- Leverage of earlier test development

### Lowest Lifetime Cost of Ownership

- Test program compatibility
- Load board compatibility
- System upgradability



# driven to **innovate**

## Verigy Innovations

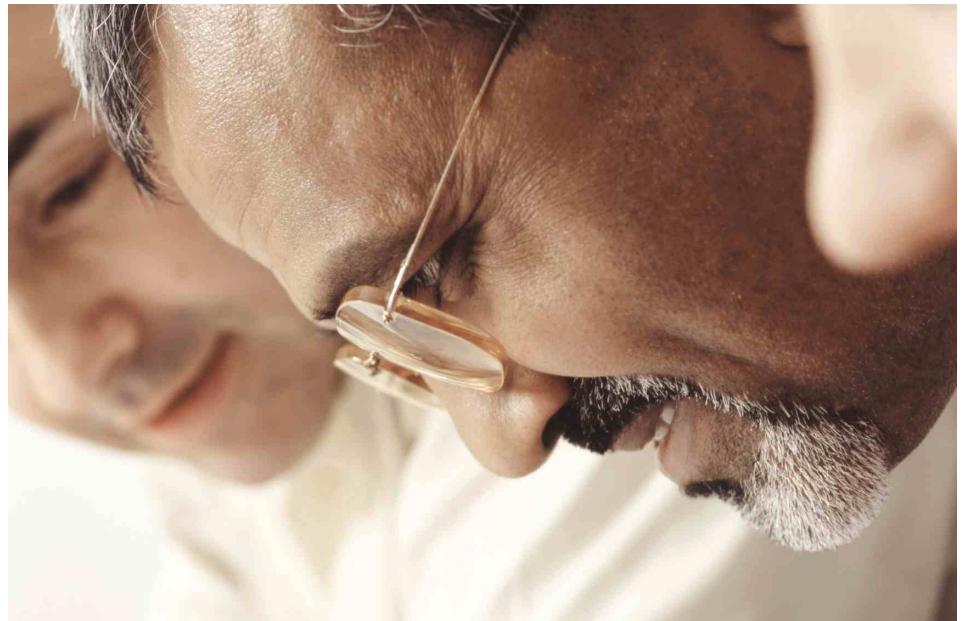
- 2010:** First SOC Direct Probing solution
- 2010:** First high-ranking ATE supplier in VLSI survey, two years in a row
- 2010:** First single touchdown, 300mm full wafer probe card
- 2009:** First 100MHz solution with Tester-on-Board architecture for low cost devices
- 2009:** First on-the-tester "triage" for real-time volume data analysis
- 2009:** First highest-ranking ATE supplier in VLSI survey
- 2008:** First real-time fault localization/visualization tool on an HVM tester
- 2008:** First memory tester for Flash and DRAM
- 2007:** First low cost, at-speed test production solution for DDR3 SDRAM and beyond
- 2007:** First RF production tester for highly-integrated RF devices
- 2006:** First 12.8Gbps device characterization test solution for SOC and HSM devices
- 2006:** First 3.6Gbps HSM production tester
- 2005:** First 2,048-pin SOC tester
- 2005:** First Multi-Chip Package (MCP) memory tester
- 2003:** First Core Test Language (CTL) browser for IEEE 1450.6
- 2002:** First 2.5Gbps PCI Express® solution
- 2001:** First quad-site baseband tester
- 2000:** First concurrent tester
- 1999:** First scalable SOC platform
- 1993:** First 1.3Gbps tester
- 1991:** First water-cooled Test Processor-Per-Pin
- 1990:** First tester with Tester-Per-Site architecture

## A History of Industry Firsts

Verigy is continuing a long heritage of innovation firsts and proven performance. We are committed to continuous development, derived from our deep understanding of the semiconductor industry.

As new technologies emerge, we are able to focus our R&D innovations on enhancing our future-ready, scalable

platforms instead of developing and maintaining multiple platforms for every requirement. Our talented team of engineers and researchers continues to lead the industry with innovations that enable our test platforms to meet the needs of the future.



**"We gain unique insights into emerging technologies and evolving methodologies by working closely with our customers. Our superior test solutions meet our customers' ongoing and next-generation needs by design."**

**Hans-Juergen Wagner**  
Vice President SOC Test



# collaborate

It takes a community of dedicated experts to design, manufacture, and deliver semiconductors in today's market. Success often takes collaboration among many partners for design, development, manufacturing and test.

Our proven platforms and applications expertise are used throughout the supply chain.

Verigy semiconductor test platform architecture can be rapidly scaled and reconfigured. This lowers the cost of test and shortens the time to market – critical to our customers' success in the high-volume consumer, computing, and communications markets.



**"We earn the loyalty of our customers every day as we work together on innovative approaches to complex problems. We pride ourselves on striving for the highest levels of professionalism, expertise and integrity."**

**Pascal Ronde**  
*Vice President, Sales, Service and Support*



# serving the **manufacturing** supply chain

## Speeding the Ramp-up

Verigy's innovative scalable platform systems are used by leading semiconductor companies worldwide in design verification, characterization, and high-volume manufacturing test.

Verigy semiconductor test platforms are used throughout the manufacturing supply chain – IDMs, fabless companies and OSATs. Their ability to rapidly reconfigure and scale the Verigy platforms is a key component of their success.

Our test equipment and services provide optimal combinations of flexibility, cost and performance. Measurable benefits extend across all stages of bringing a semiconductor product to market. This focused approach, backed by our deep experience across the semiconductor manufacturing supply chain, enables rapid transfer of knowledge and technology.

## ICs for the hottest markets are tested on Verigy platforms

- Flash and DRAM memory for PCs and cell phones
- SOCs for game consoles and DVDs
- High-Speed I/O devices for wired communication
- Mixed Signal SOC, Flash, and Graphics memory for consumer electronics
- WLAN, GB Ethernet, and UWB SOCs for PCs
- Low cost MCUs for cost-sensitive consumer products



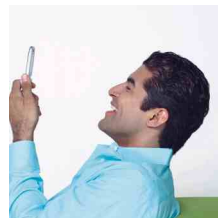


# transform



**"Our customers' products are significantly changing the way we live and work. Verigy enables them to deliver those new features, better performance, and ever-lower price points."**

**Gayn Erickson**  
*Vice President, Memory Test*



Advanced electronics connect our global community and transform the way we live and work. Whether smartphones that combine wireless communications and entertainment; personal media players for music or video; next generation personal computers; or the network equipment that connects them – semiconductors drive the products that enhance our daily lives.

Verigy's innovative test platforms enable the semiconductor industry to transform the way new products are brought to market. Our scalable platform architecture and flexible solutions provide optimal resource utilization, a test environment that encourages collaboration and leverages past test development, and reduced solution development time – even for the most advanced and complex chips imaginable. We are delivering semiconductor test solutions that enable the products that transform our lives.



# scalable test platforms

## Verigy Platforms

### V93000

- Tests complex SOC, SIP, and high speed memory devices
- Test Processor-Per-Pin architecture
- Up to 2,048 pins
- Direct probing
- Wafer sort and final test
- Quick configuration and applications changes

### V6000

- NOR, NAND, complex MCPs, DRAM, and SRAM devices
- Tester-Per-Site architecture
- Up to 18,000 pins
- 300mm one-touchdown probing
- Local Pin Electronics
- Wafer sort and final test
- Engineering and production

### V101

- Tests low-end ICs and MCUs
- Tester-on-Board™ architecture
- Up to 1,024 pins
- Mixed Signal Capability
- 100MHz
- Direct probing
- Easy to setup, use and maintain

## Flexibility and Room to Grow.

Verigy's advanced test systems and solutions serve the system-on-chip and memory segments of the semiconductor industry. We offer test platforms for each of these two general device categories:

The V93000 is designed to test cost-sensitive as well as complex and sophisticated SOC, system-in-a-package (SIP), and high speed memory devices. Its Test Processor-Per-Pin architecture enables independent testing of each device pin while its design enables rapid configuration changes making it well suited for testing a wide range of products.

The V6000 is the complete test solution for all memory test needs - Flash, DRAM and MCP - and from engineering development to high-volume production and for both wafer sort and final test.

With its scalable platform and Tester-Per-Site architecture plus optimized tester resources to efficiently and economically test all memory types, the V6000 solves the widest variety of memory test issues.

The V101 is a low-cost, zero-footprint, 100MHz test system for cost-sensitive ICs found in mobile communications and consumer electronics. With its direct probing capabilities and Tester-on-Board™ Architecture, the V101 is optimized for wafer sort and low cost MCU test. The V101's easy-to-use software and simplified service and support model delivers a unique cost-of-test advantage.





# integrated test technologies and tools

## Advanced MEMS Probe Cards

- Scalable for wafer sort
- ACCU-TORQ™ for Flash and DRAM applications
- Innovative single touchdown technology
- 200 and 300mm full wafer
- Available for multiple tester platforms

## Integrated DfX Solutions

- Comprehensive, integrated solutions
- Design debug, failure analysis and production test
- Yield Learning with on-tester data capture and real-time statistical analysis
- Accelerate time to ramp, production and yield

## Touchdown Technologies - MEMS Probe Cards

Touchdown Technologies, a Verigy company, designs, manufactures, and supports advanced MEMS probe cards for the wafer production test needs of semiconductor manufacturers worldwide. Supporting both Flash and DRAM applications, Touchdown Technologies delivers innovative, patented designs and uses process technologies developed specifically for manufacturing scalable and reliable probe cards that meet low cost-of-test requirements.

ACCU-TORQ™ technology probe cards test NOR Flash die as small as 4mm, high pin count, small die NOR, and full pin count NAND wafers and DRAM applications.

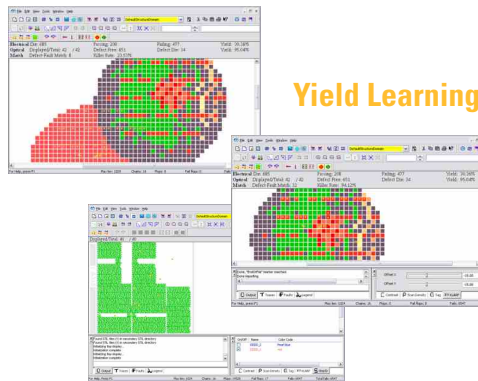
## Design for Test and Yield (DfX) Solutions

Verigy offers best-in-class, integrated DFT and Yield solutions, including design debug, production test, failure analysis, yield learning and more, for semiconductor manufacturers with complex semiconductor devices and processes. These solutions uniquely bridge the gap between electronic design automation (EDA) and test, providing on-tester analysis and localization of elusive faults.

Verigy's DFT and Yield comprehensive test solutions enable semiconductor companies to reduce design debug from weeks to hours, lower production test costs, and support real-time yield enhancements with unique fault analysis tools. When used with Verigy's proven V93000 SOC test platform, these powerful solutions enable manufacturers to realize significant economic benefits.

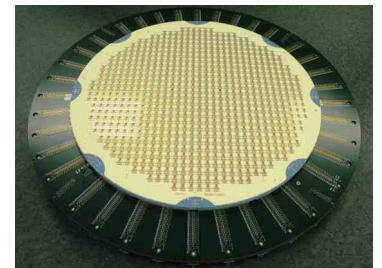


V93000



Yield Learning solution

MEMS Probe Card



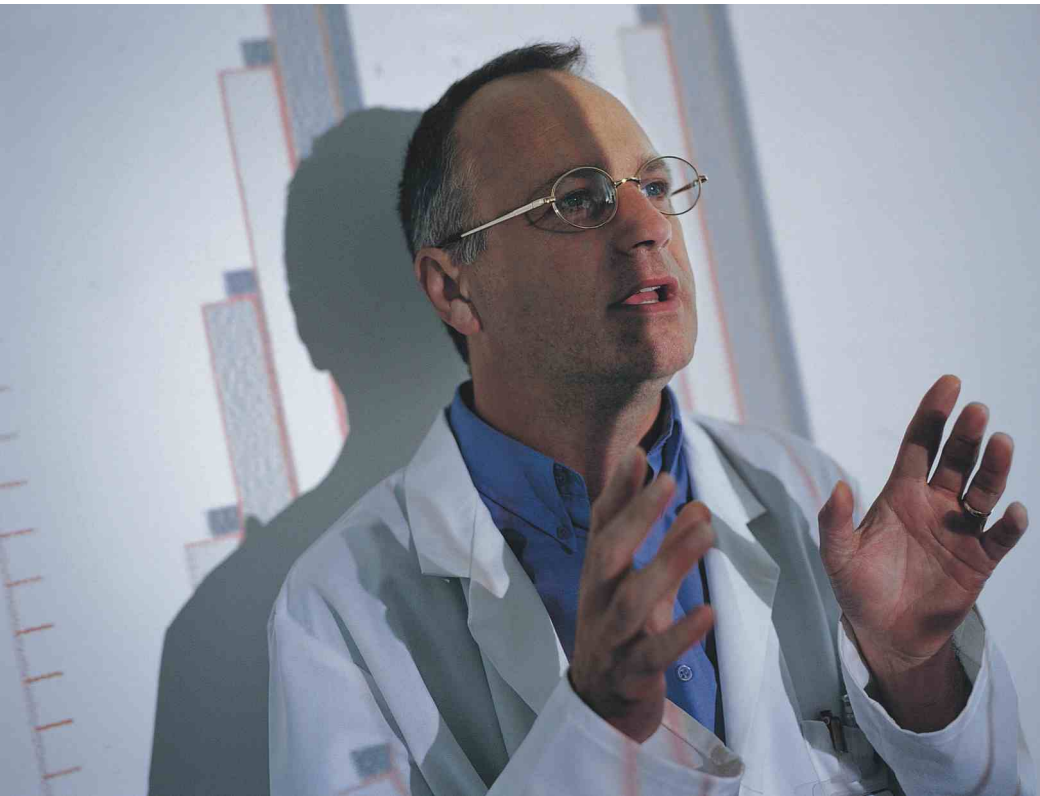


**“Verigy is committed to profitably providing our customers with superior semiconductor test solutions through world-class technology innovation and delivery.”**

**Keith Barnes**  
*Chairman*



# deliver



Verigy believes that working closely with our customers and anticipating the needs of the industry are the keys to success. Doing this gives us early insight into emerging technologies. Our future-ready scalable architecture enables us to focus our engineering talent and resources on proactively meeting the new test challenges posed by the most promising technology waves. The result: we deliver the right solutions and support when our customers need them, from research, development and training to Verigy Labs Network, Verigy Academy and Verigy Learning Centers. We innovate, collaborate, transform and deliver to meet the future head on.



## the **leadership** team

Verigy believes in the power of **innovation**. While our customers' products **transform** our daily lives, our semiconductor test solutions are what help make them possible. In other words, our combined innovations deliver brilliant results.

As a company, we are driven to be the leading semiconductor test equipment and services supplier. We focus our R&D innovations on future-ready, scalable platforms. We **collaborate** with our customers on the toughest test challenges. And we always **deliver** on the promise of world-class professionalism, expertise, and integrity—so our customers have an outstanding total experience with Verigy.

**Keith Barnes**

Chairman

**Jorge Titingar**

President and Chief Executive Officer

**Robert Nikl**

Vice President and Chief Financial Officer

**Mark Allison**

Vice President, Strategic Marketing

**Judy Davies**

Vice President, Investor Relations and Marketing Communications

**Gayn Erickson**

Vice President, Memory Test

**Mike Fitzgerald**

Vice President of Human Resources

**Peter Jeckel**

Vice President Global Services and Support

**Warren Kocmond**

Vice President, Global Operations

**Pascal Ronde**

Vice President, Sales, Service and Support

**Margo Smith**

Vice President and General Counsel

**Hans-Juergen Wagner**

Vice President, SOC Test

**Jin Wei**

Vice President, Application-Specific Test Solutions





# worldwide locations

## Finding Verigy

Verigy's global headquarters is located in Singapore with U.S. headquarters and offices of the chief executive staff in Cupertino, California. Sales offices and development centers are located throughout the world.

### Global Headquarters

Verigy Ltd.  
No. 1 Yishun Ave 7  
Singapore 768923  
Telephone: +65 6755-2033

### United States Headquarters

Verigy US Inc.  
10100 N. Tantau Avenue  
Cupertino, California 95014-2540  
Telephone: +1 408-864-2900

### SOC Product Development

Verigy Germany GmbH  
Herrenberger Strasse 130  
71034 Böblingen, Germany  
Telephone: +49 7031 4357 000

### Memory Product Development

Verigy Development Inc.  
10100 N. Tantau Avenue  
Cupertino, California 95014-2540  
Telephone: +1 408-864-2900

### Advanced MEMs Probe Card Development

5188 Commerce Dr.  
Baldwin Park, CA 91706  
Telephone: 626.472.6732  
email: SalesUS@TdTech.com

### Sales and Support Offices

#### Americas Sales & Support

Cupertino, California, USA  
San Diego, California, USA  
Burlington, Massachusetts, USA  
Austin, Texas, USA  
Richardson, Texas, USA

#### Asia Sales & Support

Shanghai, China  
Hachioji, Japan  
Sungnam-si, Korea  
Kuala Lumpur, Malaysia  
Singapore  
Tao-Yuan, Taiwan  
Kaohsiung, Taiwan

#### Europe Sales & Support

Grenoble, France  
Böblingen, Germany  
Milano, Italy  
Petach Tikva, Israel

For more information about Verigy  
visit our website at:  
[www.verigy.com](http://www.verigy.com)

### Other Offices

**Applications Development Center:** Austin, Texas, USA

**Applications Development Center:** Shanghai, China

**ASTS Development:** Hsinchu, Taiwan

**ASIC Development:** Fort Collins, Colorado, USA

**Touchdown Technologies:** Baldwin Park, California

For information on contacting Verigy offices visit:  
[www.verigy.com/go/contactus](http://www.verigy.com/go/contactus).