

P9001A Massively Parallel Parametric Test System

Highest Throughput Parallel Parametric Tester

P9001A Massively Parallel Parametric Test system is here with “true” parametric per-pin test resource, designed to perform ultra-fast and precise DC measurements, capacitance measurements, and other parametric measurements such as ring oscillator measurement. With up to 100 per-pin measurement channels configurable for your own production needs, P9001A parallel parametric test system enables the minimal cost-of-test in the volume manufacturing.



Keysight P9001A: Parametric Test System Total Solution

Keysight P9001A offers a wide range of measurement capabilities required for fundamental parametric test with both per-pin test resources and shared test resources. Per-pin test resources enable fundamental DC measurements and others such as capacitance, frequency, Rapid Vth, contributing the highest throughput by parallel testing. Several other instruments, such as a digital voltmeter (DVM), and an LCR meter, provide the enhanced measurement capabilities.

Hardware, Software, and Professional Services

P9001A massively parallel parametric test system may be considered as a hardware integrated system with system cabinet and test head, however, there are more essential system elements of software and professional service by Keysight technical experts.

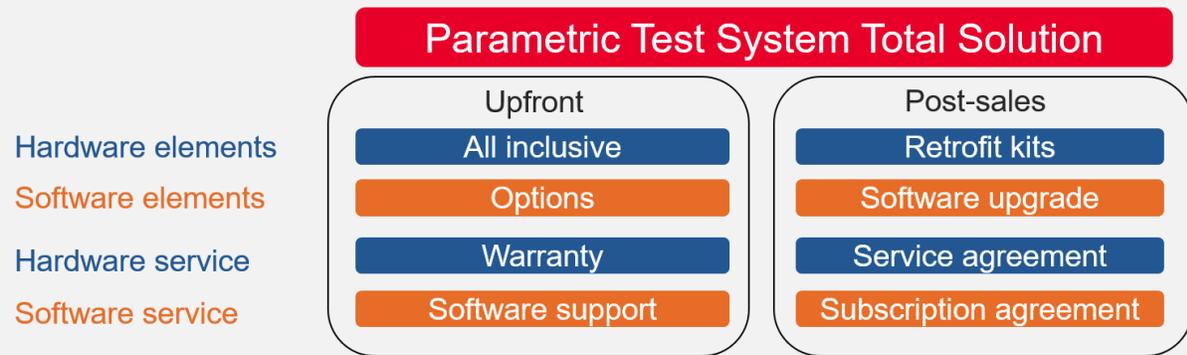


Figure 1. Parametric Test System Total Solution

P9001A as Single Offer of Total Solution

Keysight also offers solution support and training as professional services to provide a quicker start up, maximize your productivity and minimize downtime of systems. Keysight experts have deep domain knowledge of test equipment, software, standards, and regulations. Service and solutions from Keysight provide truly trusted systems that you can rely on the measurements you make, through the proactively structure an on-site service plan that can include an on-site repair service, a remote response team, a scheduled calibration services, or timely software updates.

- Upfront purchase: configuring available hardware and software options along with some professional Application Engineer (AE) consulting and Customer Engineer (CE) uptime service such as installation, repair, and calibration.
 - Hardware warranty and service agreements are essential for first 12 months and available to extend to 36 months.
 - Software subscription service is offered for first 36 months as required.
- Post-sales: Upgrading hardware and software with available retrofit kits and professional AE or CE services. Renewals of service agreement are available with both hardware services and software subscription.

Hardware Elements

P9001A has the test head with per-pin test modules of up to 100 output pins and system cabinet to use with the probers in semiconductor wafer production line. All hardware elements are ready-to-use per your test needs and test structure design to maximize the production capacity and for the highest throughput to achieve.

Essential and Advanced Measurement Functions

Essential measurement functions for parametric test as DC IV, capacitance, pulse, and ring oscillator are all included in the per-pin test modules. P9001A also has some advanced measurement functions such as Rapid Vth and Universal Kelvin to achieve the highest PPH (parameter-per-hour) and COT (cost-of-test).

These are all-inclusive for the test parameters and test structure design of your wafer.

Selection	Upfront	Post-sales
Per-pin test resources	Source Monitor Unit (PSMU), Capacitance Measurement Unit (PCMU), Frequency Measurement Unit (PFMU), Pulse Generation Unit (PPGU)	Retrofittable for adding more pins
Shared test resources	Source Monitor Unit (SSMU), Digital multimeter, LCR meter	n/a
System controller	Industrial PC (Linux)	n/a



Available Software Options

There are available options for P9001A system software, SPECS, SPECS Parallel Test Extension and SPECS-FA as follows:

- Software media on CD-ROM
- English paper manuals

Software with Subscription Service

P9001A system software and P9001A software packages offer 36 months subscription service for each new tester at purchase. When the software media option is purchased, 36-month software media subscription is available.

1. Software License-To-Use (LTU) subscription service
2. Software media subscription service

To maintain the software with the latest enhancements and defect fixes, Keysight recommends renewing the software update subscription with P9001A system software, SPECS, Parallel Test Extension, and SPECS-FA. You can access to the latest software within the subscription service as well as the remote technical support calls to local Keysight AE experts.

Keysight Professional Services

Keysight offers numbers of services to complete the parametric tester solution including:

On-site installation services

This is a standard service for every new parametric test system at purchase. Keysight Customer Engineer (CE) will install the system at on-site. Before installing the system, Keysight CE also performs site verification as pre-installation process.

Warranty and extended services

12 months of on-site repair service is offered as a standard warranty. Extended warranty service agreements are also available for sale.

Calibration services

12 months of on-site calibration service agreement is offered with the parametric test system. Extended calibration service agreements are also available for sale.

Productivity assistance

Customers can choose the term of productivity assistance from a day to required terms Keysight professional Application Engineer (AE) consulting services.

Application software support

Keysight AE consulting is also available for specific deliverables such as software customization, software program conversion or software program optimization to assist customers programming for additional test parameters, and/or throughput improvement by optimizing software design.

Startup assistance

To correctly set up the parametric test system and check through all purchased functions to operate as soon as possible, Keysight Customer Engineer (CE) can help your smooth production ramp up with the startup assistance.

Training (on-site, Keysight office, or remote)

Various trainings are provided by each region or country to meet your local needs. Contact to the training coordinator in your region or country to see what trainings are available and get a quote of the right ones in local price.

Post-sales professional service

Keysight offers all above consulting services for post-sales as well. Feel free to contact Keysight representative if you need additional needs for new operator trainings and/or for tester throughput improvements for lowering cost of test.

Post-sales service agreement and contract renewal

When the initial service agreements of hardware and software subscription are expiring, Keysight contract sales team will propose you for renewals based on your current system configuration. Request your renewal quote to secure and maintain the parametric test system up and running with the minimized downtime.

Conclusion

All parametric test designers want to improve the throughput and minimize any production downtime for the better cost of test in semiconductor wafer productions. To overcome some typical but difficult process test challenges in your semiconductor wafer production, Keysight offers the total solution on parametric test not only with hardware and software but with professional AE and CE consulting service for your P9001A Massively Parallel Parametric Test System.

If you need any technical consulting service on throughput improvement and/or advice on service agreements to reduce the unwanted downtime, contact Keysight as we offer the various professional service as agreement and per-incident consultation to maximize your productivity and production capacity.

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

