

PXI Functional Test

Keysight Technologies and
The Test Connection, Inc.

Meet your time and budget constraints with PXI functional test

Designing a functional test system can be time consuming and costly. The increased emphasis on budgets means that the creation of in-house, special-to-type functional test systems can no longer be justified. Wherever possible you need to utilize your functional test equipment hardware and software across many different products in order to maximize your return on investment.

Many factors must be considered in developing a functional test system – the characteristics of the unit-under-test, the test coverage required, test times, the resources available and the overall budget. You need to balance the three constraints of performance, cost and time in order to create the optimum test solution.

The focus on performance, cost, and time lies at the heart of The Test Connection Inc.'s (TTCI) approach to functional test. TTCI creates comprehensive test solutions for its customers by building on the capabilities of Keysight Technologies functional test platforms.

With the Keysight TS8900, TTCI can provide a PXI-based test solution that meets your exact functional test needs – in aerospace/defense, automotive, avionics, medical, telecommunications and others.

The TS8900 system includes a range of PXI measuring, stimulus, and interface instruments. These include the M9186A

- PXI functional test systems to meet your time and budgetary constraints
- Based on Keysight TS8900 PXI functional test platform
- Configured with PXI measurement/stimulus/interface units
- Can use additional standalone, modular, and card-cage instruments
- Complete solution, from requirements definition to deployment
- Meet your functional test needs on time and in budget



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100 V voltage/ current source, M9216A high voltage 32 channel acquisition module M9185A digital-to-analog converter, M9187A 32x32 digital I/O and the M9182A/3A digital multimeter. In order to extend the system to meet your exact functional test needs you can also specify additional LXI or GPIB-based test resources from Keysight's range of standalone, modular, and card-cage instrumentation products. Boundary scan (JTAG) testing can also be added to the TS8900 for enhanced digital diagnostics.

TTCI uses the TS8900 as the platform for creating functional test systems for its customers. Working with the customer, the company will create a detailed system requirement definition including test instrumentation, estimated test times, and throughput, the physical footprint of the systems and all key specifications. From the initial proposal TTCI will develop and implement the hardware and software resources necessary to meet your needs. TTCI can provide delivery, installation, training, and support services to ensure rapid and effective deployment.

With its extensive experience in functional test and its worldwide service and support organization TTCI can fully utilize the capabilities of the Keysight TS8900 to supply cost-effective PXI solutions that achieve your specific functional test needs

System Components

Keysight Technologies

TS8900 Functional test system platform, including:

M9186A	PXI isolated single channel voltage/current source, 100 V
M9216A	32-channel high data voltage acquisition module
M9185A	PXI 8/16-channel isolated D/A converter
M9187A	PXI digital IO: 32 inputs, 32 outputs
M9182A/3A	PXI digital multimeter

Additional Keysight standalone, modular and card-cage instruments can be specified

The Test Connection, Inc.

TS8900 Turnkey application development

To learn how this solution
can address your specific needs
please contact
Keysight's solutions partner,
TTCI
www.keysight.com/find/ttci



Keysight & Solutions Partners
Extending our solutions to meet your needs

Keysight and its Solutions Partners work together to help customers meet their unique challenges, in design, manufacturing, installation or support. To learn more about the program, our partners and solutions go to www.keysight.com/find/solutionspartner

The Test Connection, Inc. (TTCI) has been supporting electronics test for over 30 years by offering printed circuit test solutions including In-Circuit Test (ICT) development, Flying Probe development, Boundary Scan Test Solutions and Functional Test System development. www.ttci.com

For information on Keysight Technologies' products, applications and services, go to www.keysight.com

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