



Press release

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Simply flexible: novel answers for efficient test solutions

The IPTE ILAN technology moves test instrumentation directly into the fixture



IPTE has been designing and manufacturing custom-specific electronic and mechatronic test applications for a huge variety of products and printed circuit board assemblies for more than 15 years. These encompass, for example, single solutions, test racks and stand-alone measurement and test work stations and also fully automated in-line test stations which include the handling of the test objects. The longstanding and far-reaching experience of the IPTE test engineers forms a reliable and excellent center for the advancement of a completely new test strategy: the IPTE ILAN module technology.

With the LAN (local area network) -based ILAN (instrumentation on LAN) IPTE is going to turn over a new leaf in the domain of test technology. As a matter of course the IPTE ILAN modules are designed and manufactured according to highest industry standards in quality and reliability. In a nutshell: these are exactly the type of efficient test solutions that the market expects right now.

The fundamental idea here is as simple as it is efficient: small but powerful instrumentation modules generate the required stimuli signals and provide the conditioning of the measurement and test signals so that evaluation and control can be carried out using just a conventional Ethernet interface. Consequently, test solutions can be set-up more easily, faster and more cost-efficiently. Using ILAN, existing measurement and test applications and instruments can also be completed and integrated in order to form new and effective solutions.

The very compact IPTE ILAN modules can be integrated virtually wherever they are needed. For example, they can be located directly in the test adapter, right at the contacting needles of the fixture. This allows measurements and programming in close proximity to the test object. The advantage is twofold: on the one hand there is higher measurement accuracy and less vulnerability to failures, and on the other hand space requirements for the whole system are reduced, there is less wiring, less complexity and remarkably minimized costs.

Over the Ethernet interface of a local network all ILAN modules are connected to the respective test systems based on PC technology. However, they can also be used in a stand-alone modus without interfacing to a PC. Access to the IPTE ILAN modules is possible through every standard web browser and is therefore easy, as well as being tried and tested as a known technology. Moreover, the "look and feel" of the operation and programming environment can be designed according to customer-specific requirements.

The IPTE ILAN modules deliver the energy supply and the standard or specific stimuli signals needed for the test objects, they also control and operate the input and output configurations, and measure, test, analyze, control and monitor the system. Besides the "classical" test applications in the production of printed circuit board assemblies and



electronic units the ILAN modules can be used for other applications such as burn-in/run-in, rework stations or design stations.

For the potential range of applications a large variety of combinations with any chosen standard equipment is possible. The IPTE engineers place high importance on the ILAN modules not being a competing solution to the standard test equipment available on the market.

The software package FrameWorX+ which is in the scope of supply controls the test routines, complemented by special functions developed by IPTE. So, based on the operating system WINDOWS XP test routines can be generated and debugged within a very short time. All the required drivers and programming tools are already integrated. The programmed test sequences and functions can be verified in evaluation runs. For most natural languages specific software versions are available. If needed, the software package can be supplemented with custom-specific functions and user interfaces.

As already mentioned, IPTE has been designing and manufacturing custom-specific electronic and mechatronic test applications for a huge variety of products and printed circuit board assemblies for more than 15 years. These encompass single solutions, test racks and stand-alone measurement and test work stations and also fully automated in-line test stations which include the handling of the test objects. The longstanding expertise of IPTE's test personnel provides the solid and proven foundation for the design of individual test applications for a broad range of different industries such as automotive, computer, consumer electronics, industrial electronics, lighting, solar and telecommunications, all of which can be made more cost-efficient and powerful using the novel ILAN modules.