



# PCIe SSD Hybrid Production Test System

## Burn-in Solution for

## Production - Qualification - QA - SSD Device Screening

The growing adoption of the new PCIe SSD drive technology, Low latency and high densities, are factors that requires from Tanisys Technology to continually reinvent its SSD storage test systems in order to stay ahead of industry needs.

SSD manufacturer have an immediate need for a test system that is able to test SSDs as standard generic drives, but to also test for unique SSD drive failure modes and attributes of the underlying solid state technology. Building on its more than two decades history of developing Memory testers, Tanisys Technology is introducing a wide array of products designed specifically for SSDs.



### Key Features and Options

- Supports SSD Burn-IN and SSD Functional Testing within the same Hybrid Chamber.
- Support various SSD Protocol and Speed
- Comprehensive library of production test scripts, specially designed for SSD drives.
- Easy removal of SSD devices from Test boards
- Damage - proof insertion on Test boards
- Easy to switch from PCIe to SATA/SAS by quick change of Test board
- Supports Tanisys DNA2 integrated software platform.
- Hot swappable test SSD devices.
- Automatic detection of SSD devices.
- Production Test floor efficiency

## **DNA2 Software**

- Intuitive script programming for developing test routines.
- Extensive API for user-defined plug-ins.
- Extensive library of test routines.
- Easy to navigate GUI
- User friendly management tools

## **Applications**

- Factory production testing.
- Qualification/Certification.
- QA/Reliability testing.
- SSD Device screening

## **System Description**

### **SX3- Architecture**

This Tanisys SX3 Hybrid test system is based on a high density system footprint that can accommodate a minimum of 128 devices (DUTs) up to 1024 SSD devices. Industry standard PCIe - bus interfaces are supported. As new generations of interfaces and protocols are defined, Tanisys will be ready with upgrade options to keep the system future - proof. This tester supports the robust Tanisys 's DNA2 test - software platform with a comprehensive library of standard tests, while allowing user-defined and user-developed test scripts through a provided script development platform. Many options are available to support test needs tailored to customer requirements.

## **Test Options**

- SSD Device Read/Write
- Power margining.
- Current measurement
- Power Cycling
- Controller firmware download
- Full Protocol Functional Testing

## **Environmental Chamber and Burn-In System**

This tester can be delivered as an environmental chamber system, the Tanisys Hybrid Chamber, to support low temperature and humidity testing. The capacity, footprint, and power requirements of the Tanisys environmental system will vary from those of the Tanisys burn-in system.

- Temperature range - 45°C to +85°C
- Ramp rate - 1°C/minute
- Four Temperature zone
- Power Cycling
- UART/SMBUS/Serial Communication support
- DUT Temperature monitoring
- Power current measurement

<b>SXBI-16t4z Test System Specifications</b>	
Input voltage	3-phase delta connection 200 ~ 240 VAC
Input current	150 Amps per phase
Input frequency	50Hz (China), 60Hz(USA) , +/- 3Hz
Electrical inlet connector	Screw terminals accepting wires terminated with Jeono JOR 35-12 or equivalent
Circuit breaker protection on chamber	80 Amps per phase
Recommended AC service circuit breaker	100 Amps per phase
Dimensions, Tester, H x W x L	1970 x 3000 x 1650 mm
Dimensions, shipping, H x W x L	2200 x 3000 x 1870 mm
Weight, tester	1500 Kg
Weight, shipping, approximate	1800 Kg
Temperature, operating	20° C to 30°C (68° F to 86° F)
Temperature, storage	-12° C to 60° C (10° F to 140° F)
Relative humidity, operating	20% to 80%, non-condensing
Exhaust Air	2x Pi 250mm, max 16m/s air (avg 15m/s) (2x3.14x0.125x0.125x15x60 = ~88 CMM) by 2xFans center to center (of fans) 500mm separated
Inlet Dry air or N2 for cold operation	1x Pi 10mm 3-4 kg/cm2 , from rear bottom
outlet drain water	depended on cold operation

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