



SANBlaze SBExpress-DT5 Gen5 NVMe SSD Test System

Overview

The SANBlaze SBExpress-DT5 (Desktop, Gen5) is a complete turnkey PCIe® Gen5 NVMe SSD validation test system. With industry leading *Certified by SANBlaze* automated testing, the SBExpress-DT5 brings Enterprise Class NVMe validation to the developer's desktop.

The DT5 is 100% Software Compatible with the SBExpress-RM5 sixteen device system. The DT5 provides features — formerly the exclusive domain of the qualification and incoming inspection teams — right to the engineer's desk.

Using the same Single/Dual Port U.2, M.2, EDSFF, and Riser5 risers as the 16-bay rack mount system, the desk top DT5 packs the same enterprise class features including including OCP, TCG, SRIS, L1.1/L1.2 substates, ZNS and power control. All attributes available through the SANBlaze automated environment support Python, REST and CLI/XML API control.

The “out-of-the-box” *Certified by SANBlaze* test suite, or tests highly customized by your qualification team or a customer's inbound inspection team, can be run on the engineer's desk providing a huge time-to-market advantage in finding issues before they leave your workstation.

Quiet enough for remote locations, the DT5 is perfect for your “work at home” environment or to take directly to your customer.

A complete system, fully self-contained, the DT5 can be set up, configured, and testing NVMe devices in under five minutes.

Highlights

- Client/Enterprise class NVMe qualification in a desktop enclosure
- 100% compatible with SBExpress-RM5 for “Prototype to Production” scaling
- Plug and Play, testing in under five minutes
- Quiet enough for home, capable enough for the Enterprise

System Features

Four PCIe Gen5 slots

- Slots 0, 1, 2 Gen5 Riser; options for U.2/ M.2/EDSFF, E1, E3
- Slot 3, PCIe x16

Hardware Features under SW control

- Dual/Single Port selectable
- Fan speed control
- Power up/down testing each device
- PERST (reset) and HotPlug on each device
- Power measuring all slots
- SRIS support and built in tests (optional)
- Surprise/Graceful removal testing
- VDM (optional)
- SMBus and In-Band MI testing
- FW download via VDM, SMBus and In-Band
- Gen5 TLP/DLLP/Receive Error monitoring for PCIe Gen5 validation
- L1, L1.1, L1.2 substate support

Dimensions

Length: 17.75" | **Width:** 17.4" | **Height:** 4"

Power

Input Voltage 100-240 V
Input Current 4-8 A
Rated Power Output 500 W

Certified by SANBlaze

Using the SBExpress Manager software on the SBExpress-DT5 hardware, SANBlaze enables you to test your NVMe drives for compliance and performance. The ability to test your drives from prototype to production provides your end-customers the assurance of 3rd party testing validation - a must-have as NVMe takes its place as the leader in enterprise storage.

Contact us today for a demo of OCP, TCG Opal, VDM, SRIS and other major features of the SANBlaze-DT5 NVMe SSD Test System.

The screenshot displays the SANBlaze SBExpress Manager software interface. At the top, it shows 'SANBlaze' and 'SBExpress-DT5 PCIe Gen5 NVMe'. The main window is divided into several sections:

- System Overview:** Displays hardware details for 'SBExpress-DT4 940A0070003', including Voltage (12.148V), VMin (10V), VMax (13.804V), VSet (V), Enclosure Status, and temperatures for three fans (Temp1: 34C, Temp2: 33C, Temp3: 36C).
- Drive Configuration:** Shows six drives (0-5) with their capacities (16G, 2.5G), interfaces (U.2 x2, PCIe x0), and power status (Pwr).
- Test Suite Management:** A table with columns for System Index, NVMe Initiator, Controller, Namespace, Test Action, Loops, and Report. It includes buttons for Start, Stop, Pause, Unpause, Clear, Delete, Plot, Save Suite As, and Save Suite.
- Performance Graph:** A line graph titled 'Operations Per Second (IOPs)' showing Read I/O/sec (blue), Write I/O/sec (orange), and Power W (green) over time from 11:39:24 to 11:49:19.
- Certification Tests:** A tree view under 'Certified by SANBlaze' listing sections 01 through 08, such as 'Section 01 - NVMe Generic I/O Commands' and 'Section 08 - NVMe SBExpress Hotplug and Link Testing'.
- Test Results Table:** A table at the bottom showing test results for System Index 1, NVMe Initiator 0, Controller 100, and Namespace 0. It includes columns for # of Passes (1), Pass Time (0), and Action (Level1, Level2, Level3, AddSBCert).

SANBlaze SBExpress Manager with Certified by SANBlaze Automated Test Suite

All information in this document is subject to change. Contact SANBlaze for additional information.