



SANBlaze SBExpress-DT5 Gen5 NVMe SSD Test System

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

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 and in an enclosure designed for portability using the optional high impact travel case, 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.

System Features

Six PCIe Gen4 slots

- Slots 0, 1, 2 Gen5 Riser; options for U.2 / U.3 /M.2/EDSFF (short)
- 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
- Voltage margining +/- 15%
- 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
- L0's, L1, L1.1, L1.2 substate support

Dimensions

Length: 17" | **Width:** 13.5" | **Height:** 5.5"

Power

AC Input 100-127 Vac/200-240 Vac
Max 7A at 100V

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 interface for an SBExpress-DT5 PCIe Gen5 NVMe system. The top section shows system status including voltage (12.145V), VMin (10V), VMax (13.804V), enclosure status, and temperatures for six fans (32C to 30C). Below this, six NVMe drives are listed with their capacities (8G, 16G, 8G, 16G, 8G, 16G) and various control buttons like 'Remove', 'Pull', and 'Pwr'. A 'Report' section shows test results for 'SANBlaze[1][0][100][1] Vendor=NVMe Product=Dummy SN=A041CB1A Rev=R0109005', with a table of test actions including 'NVMe_ML_VDM_FirmwareDownloadComm.sh' (Failed), 'NVMe_ML_VDM_FormatNVMe.sh' (Skipped), 'NVMe_ML_VDM_GetFeatures.sh' (Failed), 'NVMe_ML_VDM_GetLogPage.sh' (Passed), and 'NVMe_ML_VDM_IdentityAllocatedNSDs.sh' (Passed). A performance graph shows IOPS over time, and a 'Certified by SANBlaze' section lists available and selected certification tests for NVMe Generic I/O Commands.

SANBlaze SBExpress Manager with Certified by SANBlaze Automated Test Suite

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