



**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 'SBExpress-DT5 PCIe Gen5 NVMe' and 'PCI EXPRESS'. The main area is divided into several sections:

- System Status:** A table showing Voltage (12.140V), VMin (10V), VMax (13.804V), Enclosure Status, and temperatures (Temp1: 32C, Fan1: 1132RPM, Temp2: 31C, Fan2: 1132RPM, Temp3: 30C, Fan3: 1137RPM).
- Drive Management:** A table with columns for Ident, Voltage, VMin, VMax, Enclosure Status, Temp1, Fan1, Temp2, Fan2, Temp3, and Fan3. Below this are six drive slots (0-5) with their respective status (e.g., 'Remove', 'Pair') and a 'Par' button.
- Report:** A section titled 'Report SANBlaze [1][0][100][1] Vendor-NVMe Product-Dummy SN-A041CB1A Rev-R0109005'. It includes a table of test results with columns for System Index, NVMe Initiator, Controller, Namespace, Test Action, Loops, and Read/Write Bytes. Below the table is a graph showing 'Operations Per Second (OPS)' over time, with a peak of 7.88.
- Certified by SANBlaze:** A section listing available certification tests, including 'Section 01 - NVMe Generic I/O Commands', 'Section 02 - NVMe I/O Tests', 'Section 03 - NVMe Resets - All supported reset methods', 'Section 04 - NVMe Namespace Management', 'Section 05 - NVMe III Basic Commands', 'Section 06 - NVMe III Full Command Set', and 'Section 07 - NVMe Dual-Port Drive Tests'.

SANBlaze SBExpress Manager with Certified by SANBlaze Automated Test Suite

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