



SBExpress-RM Dual Port NVMe Drive Test System

Overview

The SANBlaze SBExpress-RM is a complete turnkey PCI Gen3 NVMe 2.5" SSD validation test system. The SBExpress-RM feature set provides unique functions applicable to all aspects of a product lifecycle - from engineering development, through validation and QA, to manufacturing test environments.

The ability to drive NVMe SSDs with a wide range of configurable attributes provides engineers with a flexible, multi-controller supported validation test platform.

Development, qualification, and certification test cycles can be highly automated, thus reducing overall test time, and rapidly surfacing errors and non-conformance.

The SANBlaze SBExpress-RM hardware provides a rackmount chassis with sixteen dual or single port front-accessible drives. The hardware can be easily daisy chained for maximum scalability and provides excellent air flow for thermal chamber testing.

Thermal Characteristics

Version	Temperature Rating
Commercial	-5C to 45C
Industrial	-5C to 75C
Humidity	95% RH Non-condensing

Dimensions

Height	3.5"	Depth w/ Handles	22 3/4
Width w/out Ears	17 1/8"	Depth w/out Handles	21 3/4
Width w/ Ears	19"		

System Features

- Sixteen drives, all front accessible
- Hot plug, slot power, and drive presence under software control
- All sixteen drives can be single or dual port
- Field-installable riser cards support single or dual port drives
- Measure voltage and power at each drive
- Systems can be "daisy chained" up to 32 drives per host connection
- A single SANBlaze host can support up to 64 drives under test
- Optimal thermal design with unobstructed air flow
- Six fans automatically speed-controlled through temperature sensing on each fan (user controllable through config file)
- Eight temperature monitor points
- Voltage margining +/- 15%

Software Features

- Test coverage for all aspects of the NVMe specification
- UNH Conformance Testing supported
- NVMe-MI (Management Interface) testing over SMBus supported
- SGL, SR-IOV, full namespace control and reservations
- Drive multiple ports of traffic simultaneously
- Send specific or custom op codes in an easy to use scriptable format
- Read / write / compare testing
- Error injection
- Vendor-unique commands supported
- Drive and test single or multiple NVMe target devices

CONFIGURATION OPTIONS



Basic Configuration
(16 drives)



Lowest Cost Per Drive
(64 drives)



Scale as Needed
Minimal Footprint
(32 drives)

Contact SANBlaze to
Learn More

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All information in this document is subject to change. Configurations rely on host system BIOS support and may be restricted by the host. Contact SANBlaze for additional information.