SANBlaze Riser Options & Test Cases

SANBlaze systems are available with single or dual port risers either manufactured by SANBlaze or Quarch. The Quarch risers have all of the capabilities of the SANBlaze risers, with the addition of signal glitching capability. Below is a table of typical test cases and the availability of risers for each use case.

TEST CASE * See Chapter 5 of the *CLI User's Guide* to execute these test cases.	SANBlaze Gen 4 SBExpress-RM4 and SBExpress-DT4 Risers				
	RM4_SBU2 Dual/Single U.2 (can do both dual or single)	RM4_SBU3 Dual/Single U.3 (choose one or the other, single or dual port)	EDSFF Short (6") and Long (12")	Quarch U.2 single or dual	Quarch U.3 single Quarch U.3 dual
Graceful Power Down/Up	Yes	Yes	Yes	Yes	Yes
Surprise Power Down/Up	Yes	Yes	Yes	Yes	Yes
Measure Voltage and Power	Yes	Yes	Yes	Yes	Yes
Margin Voltage and Power	Yes	Yes	Yes	Yes	Yes
Single and Dual by Software Control	Yes	Yes	Yes	Yes	Yes
Hot Plug Button	Yes	Yes	Yes	Yes	Yes
Performance	Yes	Yes	Yes	Yes	Yes
IOL/UNH	Yes	Yes	Yes	Yes	Yes
PERST (control)	Yes	Yes	Yes	Yes	Yes
CLKREQ / Wake	Yes	Yes	Yes	Yes	Yes
Signal Glitch	*1	*1	*1	Yes	Yes
Inband Resets	Yes	Yes	Yes	Yes	Yes
TLP Error Count	Yes	Yes	Yes	Yes	Yes
DLLP Error Count	Yes	Yes	Yes	Yes	Yes
MI (sb_i2C)	Yes	Yes	Yes	Yes	Yes
Force Link Speed	Yes	Yes	Yes	Yes	Yes
Force Re-Train	Yes	Yes	Yes	Yes	Yes
Quarch Pull/Plug Simulate physical removal of drive from PCI bus in software	No	No	No	Yes	Yes

*1 – PERST/Clock/Power – 50ms Glitch or greater, or ON/OFF by Software

Note: SANBlaze **U.2/M.2** adapter measures voltage/power at 3.3v to the drive through the software.