SDA ANNOUNCES NEW SD EXPRESS/UHS-II VERIFICATION PROGRAM (SVP)
Program verifies conformance and performance of products

SAN RAMON, CALIF— Sept. 15, 2021 — SD Association (SDA) developed the SD Express/UHS-II Verification Program (SVP) to verify the electronic interfaces of members' UHS-II and SD Express card/host/ancillary products. Products passing SVP may be listed on the SDA website as a Verified Product. SVP provides both consumers and businesses higher confidence that products passing SVP meet the interface standards, ensuring compatibility.

SVP tests products for compliance against the SDA's Physical Test Guideline. Products eligible for SVP include card/host/ancillary products using SD Express, with PCI Express® (PCIe®) interface or SD UHS-II interface. The SDA selected Granite River Labs (GRL) as the first test provider with labs located in Japan, Taiwan and US. SVP is a voluntary program available exclusively to SDA members. Members may choose to have products passing SVP tests listed on the SDA website

PCIe and UHS-II interfaces are both high differential interfaces and meeting their specifications demanding requirements is extremely important to assure proper operation and interoperability. The SVP serves the market by assuring better interoperability and by publishing a list of SVP Verified Products. This list allows members to promote their products and allows both consumers and OEMs to have more confidence by selecting products on the list.

"SD Express delivers the fastest bus performance for a growing number of devices and UHS-II provides the industry with another solid choice for moving speed sensitive data quickly," said Hiroyuki Sakamoto, SDA president. "SVP increases confidence among consumers and businesses that products using SD Express or UHS-II will meet interface standards and deliver the performance defined by our industry leading specifications."

For a limited time, the SDA is subsidizing SVP costs and is providing its members with additional discount options via a Test Shuttle volume discount program. Test Shuttle leverages multiple members submitting products of the same type for bulk testing. Companies interested in creating products using SDA specifications and participating in SVP can join the SDA by visiting: https://www.sdcard.org/join/.

SD Express
SD Express offers the fastest transfer speeds for both SD and microSD memory cards by integrating the popular PCIe® architecture. SD Express memory cards using the SD 8.0 specification leveraging the PCIe 4.0 specification deliver a maximum of nearly 4 gigabytes per second (GB/s) data transfer rate. microSD Express memory cards using the SD 7.1 specification deliver a 985 megabytes per second (MB/s) maximum data

transfer rate. These speeds are delivered using a second and third row of pins. Both form factors use the NVMe Express™ (NVMe™) upper layer protocol enabling advanced memory access mechanism and maintain backward compatibility. SD Express will be available in SDHC, SDXC, SDUC, microSDHC, microSDXC and microSDUC capacities.

UHS-II Bus Interface
The UHS-II high-speed interface delivers up to 312MB/s using a second row of pins. This bus transfer speed option is available in SDHC, SDXC and SDUC capacities, as well as microSDHC, microSDXC and microSDUC. UHS-II is found in the SD 4.0 specification.

SD Association
The SD Association is a global ecosystem of nearly 800 technology companies charged with setting interoperable SD standards. The Association encourages the development of consumer electronic, wireless communication, digital imaging and networking products that utilize market-leading SD technology. The SD standard is the number one choice for consumers and has earned more than 80 percent of the memory card market with its reliable interoperability and its easy-to-use format. Today, smart phones, tablets, drones, IoT devices, HDTVs, audio players, automotive systems, computers, digital cameras and digital video cameras feature SD interoperability. For more information about SDA or to join, please visit the Association's website, https://www.sdcard.org.

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Media Contact
Kevin Schader
SD Association
1.925.275.6670
media@sdcard.org