"Viper VPN100: Official Patriot Statement"

Patriot Memory Inc. – We at Patriot would like to address the current situation surrounding our Viper VPN100 m.2 solid state drive. We have become aware that some customers have noted the reduction in cache on the VPN100 SSD. Over the past few days we have taken time to investigate this matter thoroughly internally and listen to the feedback generated online.

Due to the ongoing fab shortages affecting the global IC supply chain, in 2020 Patriot opted to utilize the Phison E12S controller in addition to the Phison E12 for the full VPN100 series (256GB/512GB/1TB/2TB). We confirm this is the only Viper SSD series affected. The E12S uses less cache but offers the same performance as the E12 controller because it is produced using the latest fab process and innovative firmware development. As an advanced version of the E12 controller, Patriot still guarantees that the VPN100 using the E12S will hit the same performance specs in sequential read/write, and random IOPS, and same endurance limits (sans Chia mining) as the VPN100 using the original E12 controller. Please see the comparison of performances below:

Solution	Controller die	Controller Package	Flash placement	DRAM Type	DRAM size	SSD Capacity	Client Performance
PS5012-E12	PS5012	16x16 mm	Up to 4 pcs of BGA132/BGA152 flash	DDR4	512MB for BiCS4 256GB/512GB 1024MB for BiCS4 1TB 2048MB for BiCS4 2TB (Minimum size of DDR4 is 512MB.)	256GB-2TB	Same
PS5012-E12S	PS5012	12x12 mm	Up to 8 pcs of BGA132 flash	DDR3L	128MB for BiCS4 256GB 256MB for BiCS4 512GB/1TB 512MB for BiCS4 2TB 1024MB for BiCS4 4TB 2048MB for QLC 8TB	256GB-8TB	same

NOTE 1. Client performance means sequential read/write measured on CrystalDiskMark 6.0.0/1GB range/QD32/Thread=1.

However, we do not deny that when doing so, we have failed to update our information sheets that are available online for public viewing and reference respectively, this should have been performed

immediately. For this we apologize and take responsibility for any inconveniences caused to all partners and customers. Any consumer that has any questions or concerns regarding their VPN100 solution with E12S controller is free to get in touch with our Customer Service department at:

support@patriotmem.com

Going forward, we commit to our information sheets and website reflecting the actual available product specifications at all times.

We are excited to be introducing a new Viper Gen3 x4 m.2 SSD solution launching in Q4 2021 that will replace the VPN100 and hope it will continue to please hardware enthusiasts worldwide and meet their standards.

It has been a pleasure being a part of the IT hardware community for the past 35 years and we hope to continuously bring out ground-breaking products in a time where technology is ever-evolving.

Sincerely,

Patriot Memory, Inc.