



UFS 3.1 Unleashed for Seamless XR

Surpass reality with Phison's PS8325 UFS solution. The PS8325 provides unparalleled performance on the UFS 3.1 high speed interface. With a minimal footprint in the 153-ball BGA packaging, it is ideal for performance-hungry commercial electronics such as XR headsets and your flagship mobile solutions. In the form of embedded storage devices, the PS8325 unlocks the future of edge-side computing innovations.



PS8325 – Optimizing Experiencing on UFS 3.1

PS8325, Phison's flagship UFS 3.1 solution, enables capacity up to 1TB while meeting storage needs with space constraints. Thanks to the double-channel NAND interface design, PS8325 is able to fully unleash the performance of UFS 3.1, achieving speeds of over 2000 MB/s.

Also equipped with Phison's 6th Gen LDPC engine (4KB codewords) which offers stronger soft-bit decoding than previous generations for improved correction strength, the PS8325 provides comprehensive support of requirements that come in state-of-the-art 3D TLC and QLC NAND flash technology.

SOLUTIONS

PS8325

Capacity ⁽¹⁾		256GB	512GB	1TB
Interface	HS-G4x2 UFS 3.1			
Form Factor	UFS			
Package	153 Ball (11 mm x 13 mm x 0.8 mm)			
NAND Flash	3D TLC (200+ Layers)			
Performance ⁽²⁾				
Sequential Read		2100 MB/s	2100 MB/s	2100 MB/s
Sequential Write		1800 MB/s	1800 MB/s	1800 MB/s
4K Random Read		260K IOPS	300K IOPS	300K IOPS
4K Random Write		300K IOPS	350K IOPS	390K IOPS
Power Consumption ⁽³⁾				
Supply Voltage	VCC	2.5 V	2.5 V	2.5 V
	VCCQ	1.2 V	1.2 V	1.2 V
Active (Average)	ICC	185 mA	315 mA	490 mA
	ICCQ	680 mA	700 mA	705 mA
Environmental Characteristics				
Operating Temperature	-25°C ~ 85°C			
Storage Temperature	-40°C ~ 85°C			
Features				
<ul style="list-style-type: none"> - Host performance booster (HPB) 2.0 - Write booster - Permanent and power-on write protection - Command queuing - Background operation - 2-lanes supported 				

(1) 1GB = 1,000,000,000 bytes

(2) Sequential Performance is based on CrystalDiskMark 6.0, 1GB range, QD=32T1, and test drive set as secondary
Random Performance is based on IOMeter, 1GB range, 4K data size, QD=32T16, 4K aligned

(3) Power consumption is measured during the sequential read and write operations performed by CrystalDiskMark with the conditions described in (2)



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