



Breaking Ground with UFS Storage

Revolutionize your mobile solution design with Phison's PS8327 UFS solution that brings next-level transmission performance with the UFS 2.2 high speed interface. The PS8327 is the perfect storage upgrade from eMMCs in commercial electronics designs. Get one step ahead and make the swap to unleash your 5G smartphones as well as cutting-edge mobile devices with GB-scale storage performance and bandwidth.



PS8327 – Starting Changes with UFS 2.2

PS8327, Phison's cutting-edge UFS 2.2 solution, enables capacity up to 256GB with low power consumption needs. Quick-firing data signals at 1600 MT/s, the PS8325 also provides GB-scale sequential read performance with excellent random operation capabilities.

Now equipped with Phison's 6th Gen LDPC engine (4KB codewords), which offers stronger soft-bit decoding than previous generations for improved correction strength, the PS8327 provides comprehensive support for requirements that come in state-of-the-art 3D TLC and QLC NAND flash technology.

SOLUTIONS

PS8327

| | | | | |
|---|-------------------------------------|-----------|-----------|-----------|
| Capacity ⁽¹⁾ | | 64GB | 128GB | 256GB |
| Interface | HS-G3x2 UFS 2.2 | | | |
| Form Factor | UFS | | | |
| Package | 153 Ball (11.5 mm x 13 mm x 0.8 mm) | | | |
| NAND Flash | 3D TLC (160+ Layers) | | | |
| Performance (estimation) | | | | |
| Sequential Read | | 1000 MB/s | 1000 MB/s | 1000 MB/s |
| Sequential Write | | 530 MB/s | 950 MB/s | 950 MB/s |
| 4K Random Read | | 60K IOPS | 100K IOPS | 110K IOPS |
| 4K Random Write | | 75K IOPS | 130K IOPS | 160K IOPS |
| Power Consumption (estimation) | | | | |
| Supply Voltage | VCC | 3.3 V | 3.3 V | 3.3 V |
| | VCCQ | 1.8 V | 1.8 V | 1.8 V |
| Active (Average) | ICC | 85 mA | 125 mA | 125 mA |
| | ICCQ | 340 mA | 340 mA | 340 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) 1 GB = 1,000,000,000 bytes



THE DATA WITHIN THIS SPECIFICATION IS SUBJECT TO CHANGE BY PHISON WITHOUT NOTICE. PERFORMANCE NUMBERS MAY VARY BASED ON SYSTEM CONFIGURATION AND TESTING CONDITIONS.

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