

# SK hynix 176-Layer (V7) UFS

Next-generation mobile NAND flash storage for 5G smartphones

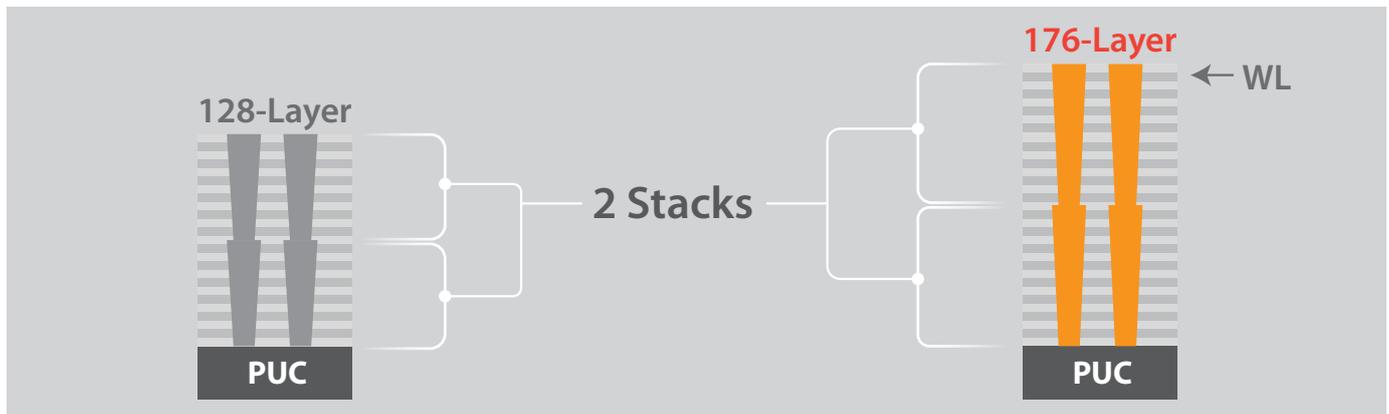


SK hynix's NAND flash lineup continues to evolve in mono-die density and available capacity configurations, supported by a proven and robust tech platform. Now we present the UD310 (UFS3.1) and UD220 (UFS2.2), high-capacity & performance mobile storage built on our latest 176-layer 4D NAND, fitted in a smaller and thinner package to meet the tight requirements of 5G smartphones.

## Features

### SK hynix's 176-Layer NAND Flash Inside

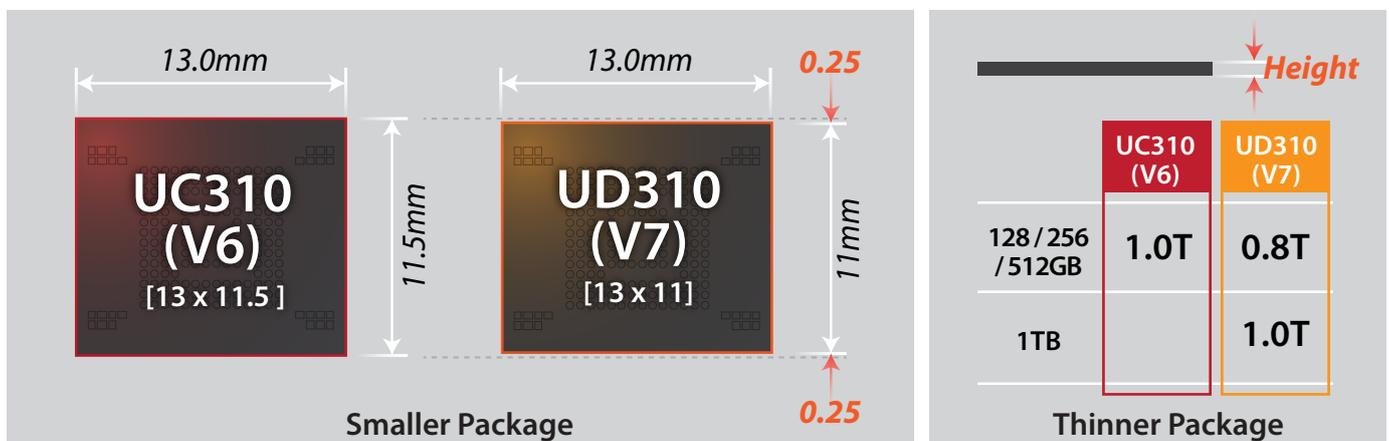
- The industry's tallest, 176-layer NAND also utilizes the 4D NAND platform.
- Built on the mature 4D NAND platform used since the 96-layer stack, the technology is highly reliable.



\*This figure is for understanding and WLs are omitted.

### Space-efficient Package Outside

- Package shrink to 11x13mm in line with demand for smaller chips in 5G smartphones
- Stronger performance in smaller and thinner package

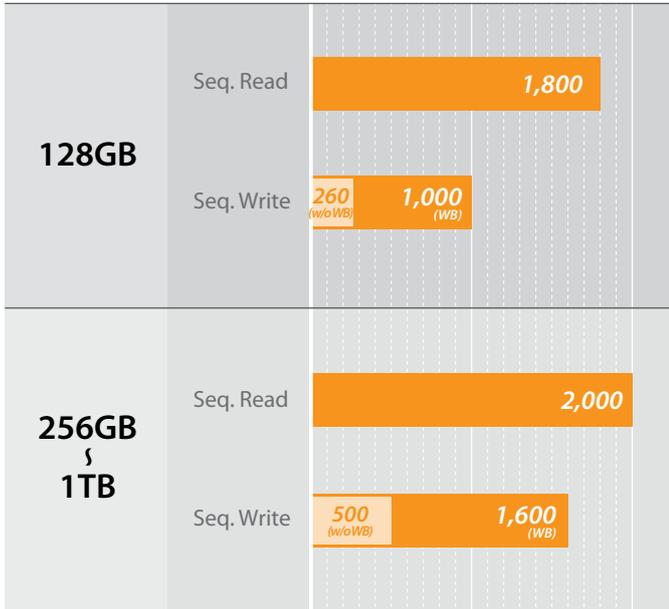


# Performance

- Stronger performance with latest 176-layer 4D NAND combined with next-gen SoC and firmware
- Enhanced with added features for maximum user benefit – advanced Write Booster (WB), Host Performance Booster (HPB) 2.0, hardware-accelerated garbage collection (HAGC)

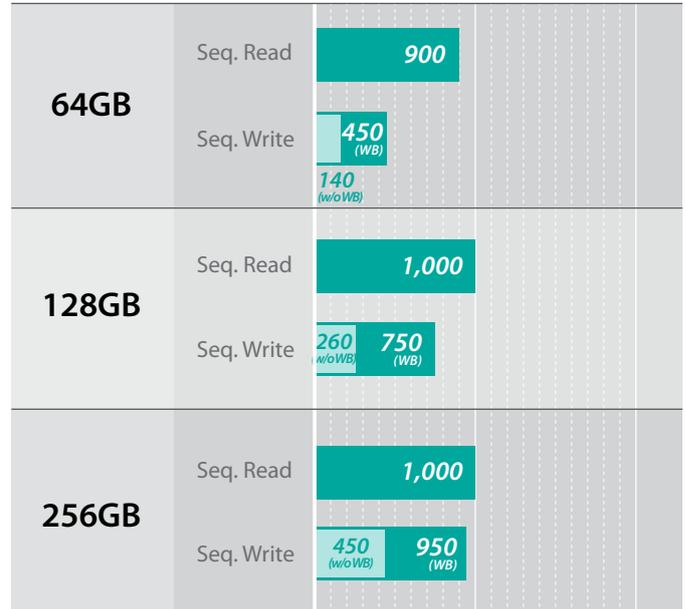
## UD310 – UFS3.1

[Unit: MB/s (Seq)]



## UD220 – UFS2.2

[Unit: MB/s (Seq)]



# Product Lineup

Model Name	UD310		UD220	
Density & Part Number	128GB	HN8T05DEHKX073	64GB	HN8G962EHKX037
	256GB	HN8T15DEHKX075	128GB	HN8T062EHKX039
	512GB	HN8T25DEHKX077	256GB	HN8T162EHKX041
	1TB	HN8T35DZHKK079		
NAND	176-Layer 512Gb TLC		176-Layer 512Gb TLC	
PKG Size & Type	11x13x0.8T (128GB~512GB) 11x13x1.0T (1TB)		11.5x13x0.8T (64GB~256GB)	
Spec	UFS 3.1		UFS 2.2	
Voltage (VCC/VCCQ)	2.5V / 1.2V		3.3V / 1.8V	

# Use Case

