

# Western Digital launches the world's first 2Tb 3D QLC NAND Flash

The world's leading manufacturer of hard drives and storage devices Western Digital has just officially introduced the world's first 2Tb 3D QLC NAND Flash model.

The world's leading manufacturer of hard drives and storage devices Western Digital has just officially introduced the world's first 2Tb 3D QLC NAND Flash model, setting a new standard in the commercial storage hardware industry. .

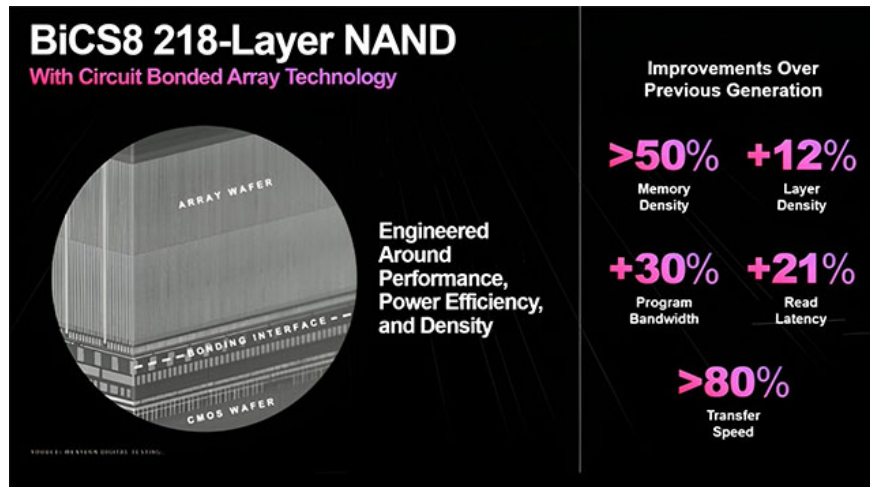
During the introduction of the new advanced NAND flash memory chip, Western Digital surprised everyone by introducing the industry's first 2Tb 3D QLC NAND chip. The die is currently in the prototype stage, and the company says this NAND chip will offer the highest density on the market, while also being able to deliver significantly faster performance than existing technologies.



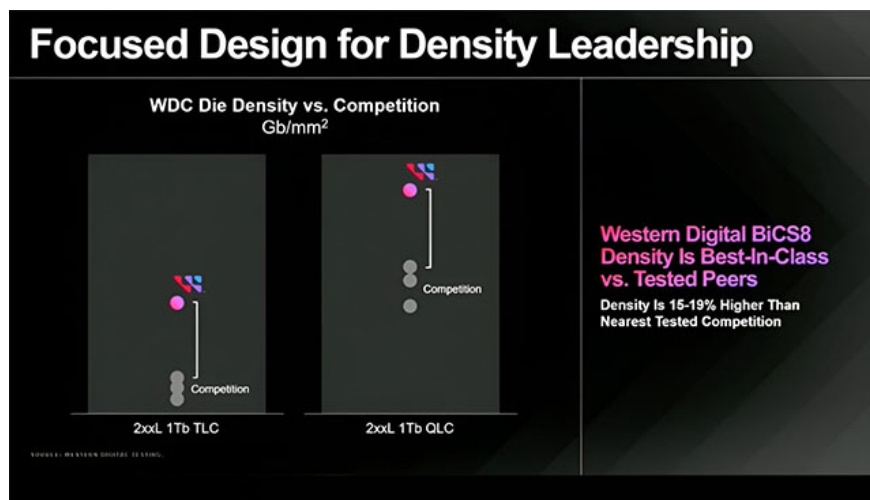
Western Digital has revealed some data to back up the claim, telling us what will happen to the market when new NAND flash memory chips hit the market, especially for the application segment. data center storage and AI needs.

Western Digital says the latest NAND memory chips are specifically targeted at AI and data center applications, and the company believes in breaking down long-established traditional barriers in the storage industry.

Diving a little deeper into the specifics, the new 2Tb 3D QLC NAND uses a 218-layer BiCS8 node, developed in partnership with Kioxia, and acts as the building block for the cutting-edge capabilities found in New NAND memory chip. According to Western Digital, with 2Tb 3D QLC NAND chips, manufacturers can deliver 4TB of storage on a single 16-die package, and can achieve 1TB configurations through just four flash memory chips.



In terms of performance metrics, Western Digital says the company's new NAND chips can offer 50% higher memory density than the previous generation, outperforming competitors by 15% to 19%. Furthermore, the NAND chip has 50% higher I/O performance speed, while consuming 13% less power.



Overall, Western Digital's new 2Tb 3D QLC NAND chip is expected to serve as a breakthrough for the market in the context of the current hot growth in demand for large-scale storage solutions.

You finished reading the article "**Western Digital launches the world's first 2Tb 3D QLC NAND Flash**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.