

# Roealsen5 Series

## DapuStor Enterprise NVMe SSD



The DapuStor R5 Series is designed and built on DapuStor DP600 controller firmware with the latest 3D enterprise TLC NAND from KIOXIA. Such a unique combination creates industry-leading SSDs with high speed, superior reliability, low latency, and excellent power efficiency, bringing optimised TCO to enterprise IT and cloud facilities. The DapuStor R5 series is an ideal solution for core data storage scenarios in different fields, such as enterprise IT, logistics, Internet, finance, intelligent manufacturing, and AI.

### Industry Mainstream NAND Flash

The DapuStor R5 Series is equipped with the latest 112L 3D NAND Flash from KIOXIA, realising an extremely high-power efficiency. It reduces NAND Retry at the system level through innovative machine learning technologies that predict the NAND workload in complex scenarios to prevent systemic failures.



KIOXIA's BiCS FLASH is a three-dimensional(3D) vertical flash memory cell structure. This structure enables it to surpass the capacity of mainstream 2D (planar) flash memory. KIOXIA's TLC 3-bit-per-cell 512Gb(64GB) BiCS FLASH, an industry first, enhances the reliability of write/erase endurance while boosting write speeds

 High storage density per die		 Low cost per bit	 Less intercell interface
 High reliability		 Improved power efficiency	 High performance

### Advanced Features

- Flash Raid 2.0 tolerating multiple flash die failures without affecting service and performance
- Latest NVMe 1.4a key features
- Advanced power loss protection that protects user data against power failure in various scenarios.
- Nine levels of adjustable power consumption: more convenient operation, maintenance, and better TCO.

### Computing And Storage Converged Platform

The DapuStor DP600 controller for PCIe 4.0 SSD has a built-in APPLICATION processor and the DPU-Link heterogeneous computing interface. It delivers faster speed when running Linux, conveniently transplants applications and algorithms, and improves system efficiency for database, AI, and big data applications.