

# Get significantly better transactional database performance for less from a Dell EMC PowerEdge R740xd server with value SAS and data center NVMe SSDs from KIOXIA

A PowerEdge R740xd server with drives from KIOXIA achieved better transactional database performance at a lower cost than the same server with enterprise SATA SSDs

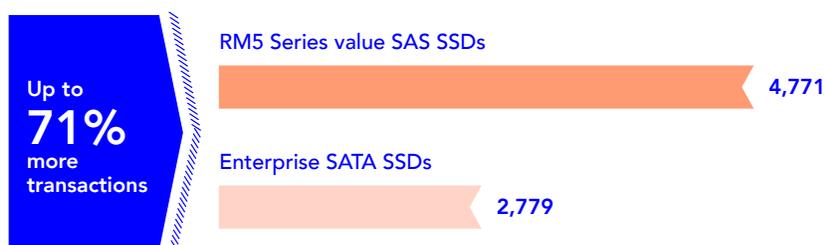
Dell EMC PowerEdge R740xd server running a transactional database workload

## Speed up your transactional database performance

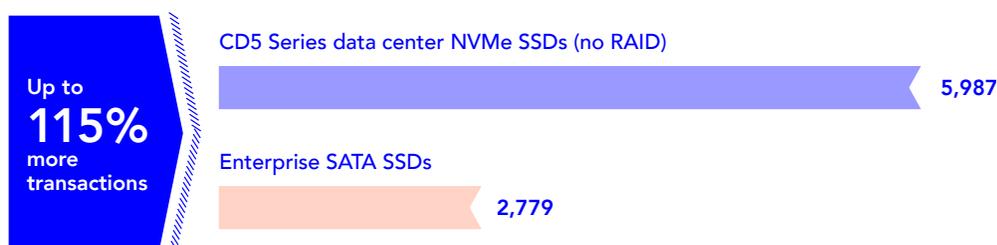


A Dell EMC™ PowerEdge™ R740xd server configured with RM5 Series value SAS SSDs boosted transactions per second by **71 percent** compared to the enterprise SATA SSDs we tested. CD5 Series data center NVMe™ SSDs delivered an increase of **115 percent** versus enterprise SATA SSDs.

### Total transactions per second *higher is better*



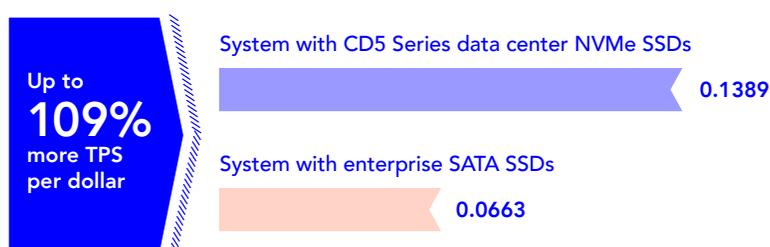
### Total transactions per second *higher is better*



### TPS per dollar *higher is better*



### TPS per dollar *higher is better*



## Get better performance for less

Value SAS and data center NVMe SSDs delivered, respectively, up to **73 percent** and **109 percent** better transactional database performance per dollar than the enterprise SATA SSDs we tested.



## RM5 Series value SAS and CD5 Series data center NVMe SSDs from KIOXIA

Value SAS SSDs deliver a 12Gb/s connection, and data center NVMe SSDs from KIOXIA push transfer speeds to 32 gigatransfers per second (GT/s).<sup>1</sup> SATA SSDs, by contrast, have had the same 6Gb/s transfer speeds since 2008.<sup>2</sup>

Learn more at <http://facts.pt/q7mwkro>

1 KIOXIA, "Life After SATA," accessed October 4, 2019, <https://business.kioxia.com/en-us/ssd/life-after-sata.html#value-sas>.

2 "New SATA Spec Will Double Data Transfer Speeds to 6 Gb/s," accessed October 4, 2019, [https://sata-io.org/system/files/member-downloads/SATA\\_6Gb\\_Phys\\_PR\\_Finalv2.pdf](https://sata-io.org/system/files/member-downloads/SATA_6Gb_Phys_PR_Finalv2.pdf).