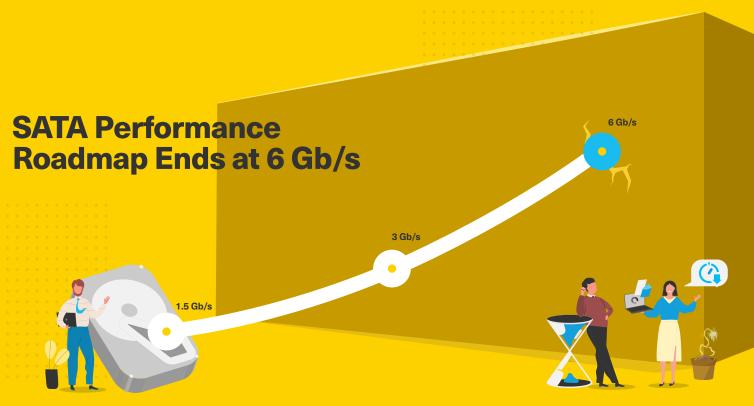
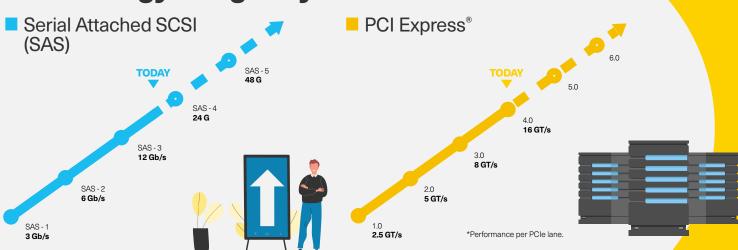
There is Life After SATA

Upgrade application performance with Value SAS and data center NVMe[™] SSDs



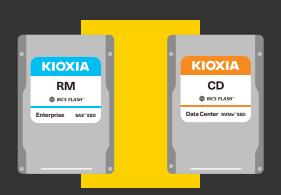
SAS & NVMe/PCIe® Technology Longevity



SAS and NVMe/PCIe interface roadmaps continue for years to come.

A Better Life with KIOXIA Next Gen Solutions





Data Center NVMe SSDs

Priced to Replace SATA

Excellent Cost/Performance
Compared to SATA

Single-Port 12Gb/s SAS Interface

Single-Port NVMe Interface

RM5 Series Performance

Sequential reads up to **838 MB/s** Random reads up to **150,000 IOPS**

CD5 Series (PCle 3.0) Performance

Sequential reads up to **3,140 MB/s** Random reads up to **550,000 IOPS**

CD6 Series (PCIe 4.0) Performance

Sequential reads up to **6,200 MB/s** Random reads up to **1,000,000 IOPS**

Easy Replacement in SAS-Enabled Servers

When Ready to Deploy
NVMe SSDs



Real World Application Benefits of Value SAS and Data Center NVMe SSDs

Transactional Database

With RM5 Series over SATA in a Dell EMC PowerEdge™ MX server.

40% More Orders per Minute¹

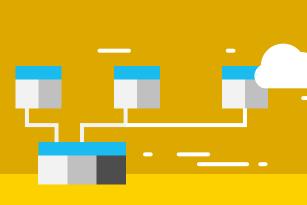
Data Analytics

With RM5 Series over SATA in an HPE ProLiant™ DL 385 server.

2.4x

More Operations per Minute²





MongoDB® Analytics

With CD5 Series over SATA in a Dell EMC PowerEdge™ R840 server.

2.37x **More Operations per Minute³**

SQL Server Database

With CD5 Series over SATA in an HPE ProLiant™ DL385 server.

57% More Transactions per Minute⁴

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¹ Principled Technologies report: Dell-EMC-PowerEdge-MX-transactional-database-1019-v5.pdf

²Principled Technologies report: RM5-Series-value-SAS-and-CD5-NVMe-mainstream-vs-SATA-data-analytics-1019.pdf ³Principled Technologies report: Dell-EMC-PowerEdge-R840-database-analytics-1019-v5.pdf

⁴Principled Technologies report: RM5-Series-value-SAS-CD5-NVMe-mainstream-vs-SATA-OLTP-0120.pdf