

# SILICONDISK™

## RAM-based Storage Appliance

Ultra Low-Latency Storage for 100Gb Ethernet  
Enterprise Fabric Architectures



The Power Behind the Storage

# SiliconDisk™ Storage Appliance

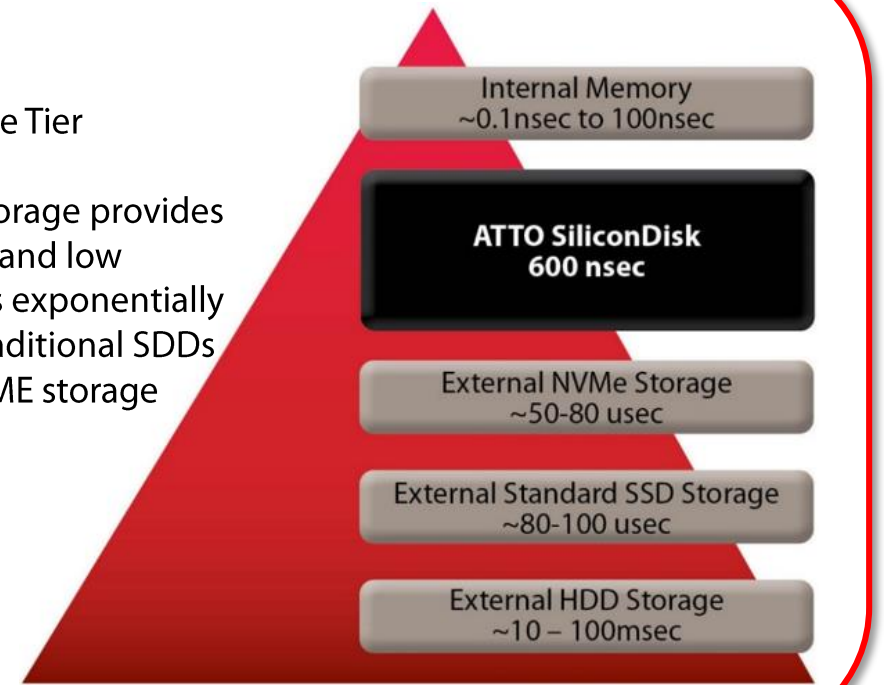
## RAM-based Storage Appliance



- Extremely-low latency storage for 100GbE fabric architectures
- 6.4M 4k IOPS
- 35GB/sec sustained throughput
- Predictable latency of <600 nanoseconds

## A New Storage Tier

SiliconDisk storage provides performance and low latency that is exponentially faster than traditional SDDs and even NVME storage solutions



High-performance storage for latency-sensitive applications

ATTO

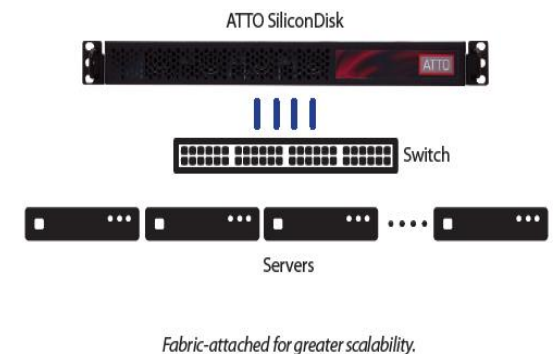
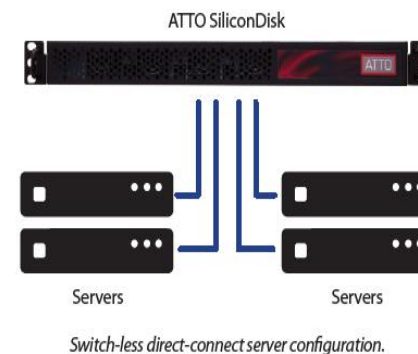
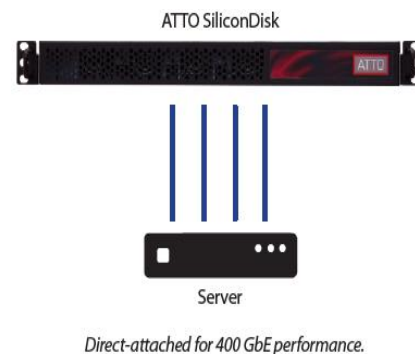
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# Rethink your Storage Architecture

## Application Targets

- Workgroup & cloud architectures
- AI/ML
- Imaging and rendering
- Database indexes
- Shared memory mailbox
- Server clusters
- Composable infrastructures
- *Wherever ultra-low, deterministic latency is critical* to application performance

- Direct-attached & fabric-attached configurations
- Provides *scalable, shareable, low-latency* storage anywhere on the network fabric



Shared, high-performance storage where it's needed most



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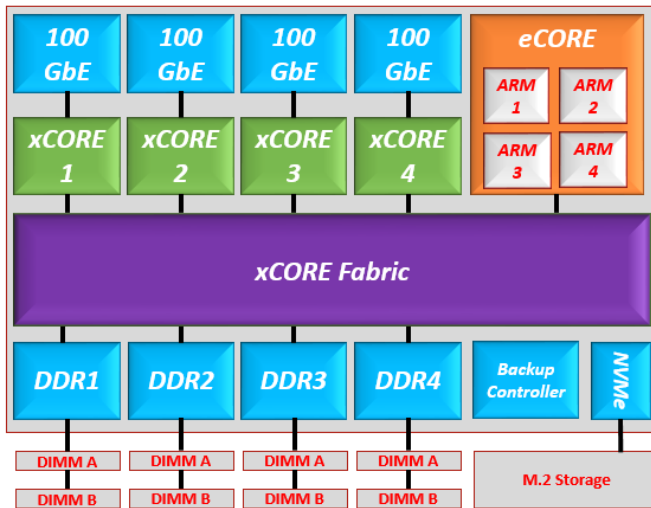
# Under the Hood

What Makes SiliconDisk™ Better



**The Power Behind the Storage**

# SiliconDisk – Better By Design



- ATTO Custom ASIC w (4) integrated 100Gb Ethernet Ports
  - *No separate 100GbE NIC ICs used for speed*
  - *Independent ports can also be configured as (16) 35GbE ports*
- Four independent, low-latency xCORE™ I/O Acceleration Engines
  - *xCORE engines provide full bandwidth thru HW data-movers*
  - *Each host port leverages an independent xCORE engine*
  - *xCORE engines share an internal fabric for access to all RAM*
- eCORE™ engine with four ARM processors for commands
  - *Capable of running future custom or third party applications*
- BU controller w M.2 SSD interface for future non-volatility feature
- ATTO Insight Analytics™ performance monitoring, analytics & optimization
  - *Measures real-time performance at 100ns thru embedded hardware*
  - *No impact on data performance for perfect analytics*
- Memory fully protected with ATTO patent pending technology

xCORE Data Acceleration Delivers <600 Nanosecond Latency – Even at Peak I/O Load



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