

# FlashArray//m

Bringing the Speed of Flash to Public Sector

**IQT**  
IN-Q-TEL

Backed by In-Q-Tel  
for US Intelligence  
Community Deployments

## Transform IT.

Who knew that all-flash storage could help reduce the cost of IT? FlashArray//m makes server and workload investments more productive, while lowering storage spend by up to 50%. Only Pure Storage helps you deliver improved online services while reducing operational costs and simplifying IT complexity.

## Transform Your Organization.

Accelerate applications and unleash the power of real-time analytics. FlashArray//m keeps data secure with built-in Data at Rest encryption. Further, Rapid Data Locking (RDL) offers smart card based instant locking of the array, enabling you to protect against emergency datacenter breaches.

## ...All by Transforming Your Storage.

### Mini Size

Reduce power, space and complexity by 90%

- 3U base chassis with 15-120+ TBs usable
- ~1kW of power
- 6 cables

### Modular Scale

Scale FlashArray//m inside and outside of the chassis for generations

- Expandable to ~1/2 PB usable via expansion shelves
- Upgrade controllers and drives to expand performance and/or capacity

### Mighty Performance

Transform your datacenter, cloud, or entire organization

- Up to 300,000 32K IOPS
- Up to 9 GB/s bandwidth
- <1ms average latency

### Meaningful Simplicity

Appliance-like deployment with worry-free operations

- Plug-and-go deployment that takes minutes, not days
- Non-disruptive upgrades and hot-swap everything
- Less parts = more reliability



## Accelerate Virtualization and VDI

- Virtualize Tier 1 IO-hungry databases and applications
- Reduce power consumption by 80%
- Squash boot storms while saving the ROI case for VDI
- Increase VM consolidation rates, reducing servers



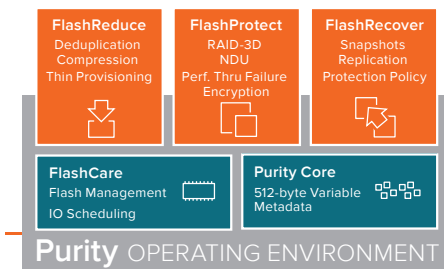
## Turbo-Charge Database Performance

- Speed transactions by 3-10x with consistent low-latency storage IO (OLTP)
- Enable online data analytics across wide datasets without sharding (OLAP)
- Mix production, analytics, test/development and backup workloads without fear



## Purity Operating Environment

Storage Software Born for Flash



Cloud-Based Management and Support



Purity delivers industry-leading 5-10X data reduction, proven resiliency with non-disruptive operations with full performance and disaster recovery built-in. Data-at-Rest encryption and RDL allow you to keep the data secure.

Storage ownership completely re-imagined for the cloud. Manage simply, monitor anywhere, and get the proactive help you need without having to ask.

## Evergreen Storage – A Better Model for Enterprise Storage

The move to FlashArray//m can be your last data migration! Deploy storage once – then expand capacity and performance incrementally as needed – without downtime or performance impact. Evergreen Storage is enabled by a combination of the FlashArray’s stateless, modular architecture and the Forever Flash business model, enabling you to extend the lifecycle of storage from 3-5 years to a decade or more.



### Modular Upgradability for Generations



**//m Chassis**

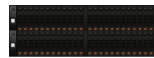
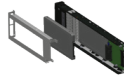
**Flash Modules**

**NV-RAM Modules**

**Expansion Shelves**

**Controller Modules**

**I/O Modules**



PCIe/NVMe and 12 Gb/s SAS fabrics  
Generations of Upgradability

20 in base chassis  
512 GB, 1TB or 2TB

2 or 4 Mirrored  
NV-DDR3

Up to 4 shelves  
12 or 24TB

2 HA Controllers  
m20, m50, or m70

6 slots, 12 ports  
8/16 Gb/s FC or 10Gb Ethernet  
4x 10Gb Ethernet onboard

#### //m20

#### //m50

#### //m70

	//m20	//m50	//m70
<b>Capacity</b>	<ul style="list-style-type: none"> <li>Up to 120+ TBs effective capacity*</li> <li>5 – 40TBs raw capacity (base chassis)</li> </ul>	<ul style="list-style-type: none"> <li>Up to 250+ TBs effective capacity*</li> <li>30 – 88TBs raw capacity (w/shelves)</li> </ul>	<ul style="list-style-type: none"> <li>Up to 400+ TBs effective capacity*</li> <li>44 – 136TBs raw capacity (w/shelves)</li> </ul>
<b>Performance</b>	<ul style="list-style-type: none"> <li>Up to 150,000 32K IOPS**</li> <li>&lt;1ms average latency</li> <li>Up to 5 GB/s bandwidth</li> </ul>	<ul style="list-style-type: none"> <li>Up to 220,000 32K IOPS**</li> <li>&lt;1ms average latency</li> <li>Up to 7 GB/s bandwidth</li> </ul>	<ul style="list-style-type: none"> <li>Up to 300,000 32K IOPS**</li> <li>&lt;1ms average latency</li> <li>Up to 9 GB/s bandwidth</li> </ul>
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>8 Gb/s Fibre Channel</li> <li>10 Gb/s Ethernet iSCSI</li> <li>Management and Replication ports</li> </ul>	<ul style="list-style-type: none"> <li>16 Gb/s Fibre Channel</li> <li>10 Gb/s Ethernet iSCSI</li> <li>Management and Replication ports</li> </ul>	<ul style="list-style-type: none"> <li>16 Gb/s Fibre Channel</li> <li>10 Gb/s Ethernet iSCSI</li> <li>Management and Replication ports</li> </ul>
<b>Physical</b>	<ul style="list-style-type: none"> <li>3U</li> <li>742 Watts (nominal draw)</li> <li>110 lbs (49.9 kg) fully loaded</li> <li>5.12" x 18.94" x 29.72" FlashArray//m chassis</li> </ul>	<ul style="list-style-type: none"> <li>3U – 7U</li> <li>1007 - 1447 Watts (nominal draw)</li> <li>110 lbs (49.9 kg) fully loaded + 44 lbs per expansion shelf</li> <li>5.12" x 18.94" x 29.72" FlashArray//m chassis</li> </ul>	<ul style="list-style-type: none"> <li>5U – 11U</li> <li>1439 – 2099 Watts (nominal draw)</li> <li>110 lbs (49.9 kg) fully loaded + 44 lbs per expansion shelf</li> <li>5.12" x 18.94" x 29.72" FlashArray//m chassis</li> </ul>

Note: All specifications are preliminarily, and subject to finalization before the FlashArray//m GA.

\* Effective capacity assumes HA, RAID, and metadata overhead, GB-to-GiB conversion, and includes the benefit of data reduction with always-on inline deduplication, compression, and pattern removal. Average data reduction is calculated at 5-to-1, below the global average of the FlashArray user base.

\*\* Why does Pure Storage quote 32K, not 4K IOPS? The industry commonly markets 4K IOPS, but real-world environments are dominated by IO sizes of 32K or larger. FlashArray//m adapts automatically to 512B-32KB IO for superior performance, scalability, and data reduction.