ENTERPRISE DATA STORAGE REDEFINED

Freedom in IT Infrastructure: uncompromised reliability, performance, support, cross-vendor platform integration





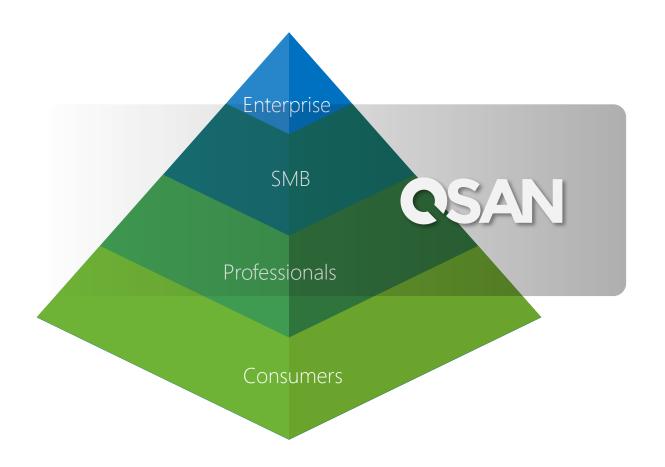
Key Milestones





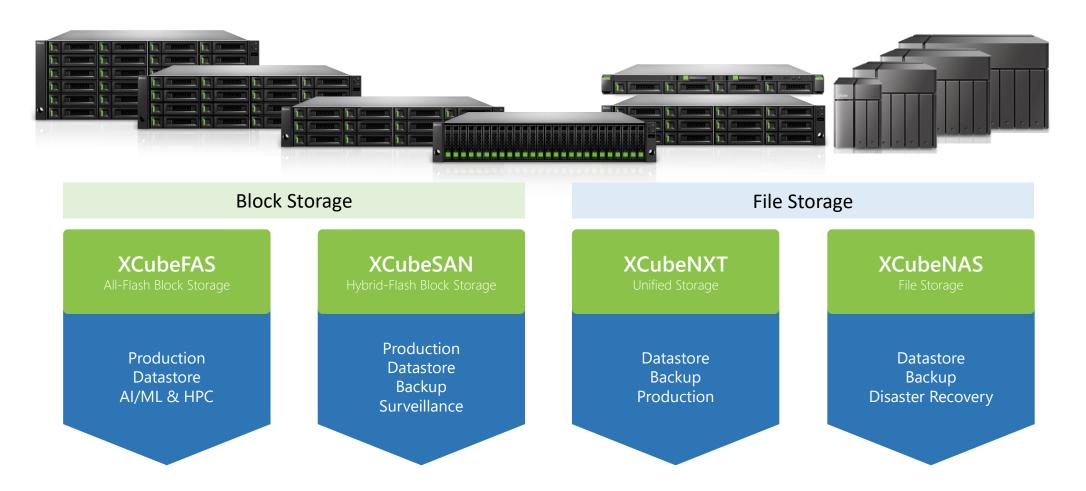


Follow the Marketing Position Leading price-performance enterprise storage



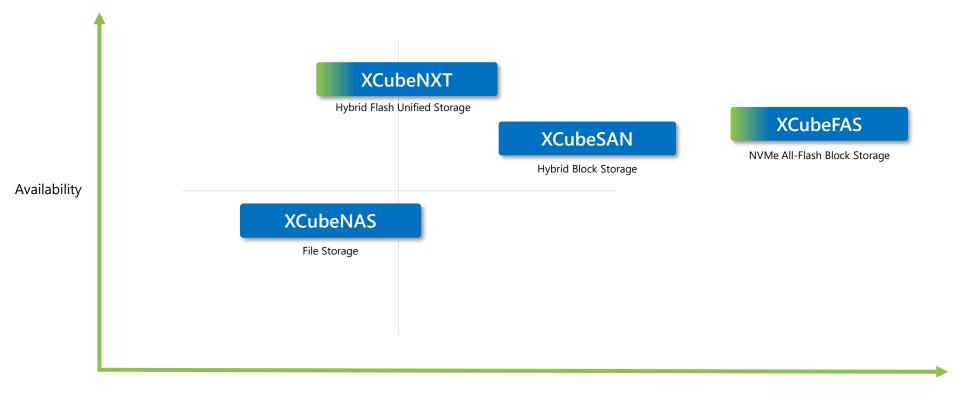


XCube Platform – One Architecture





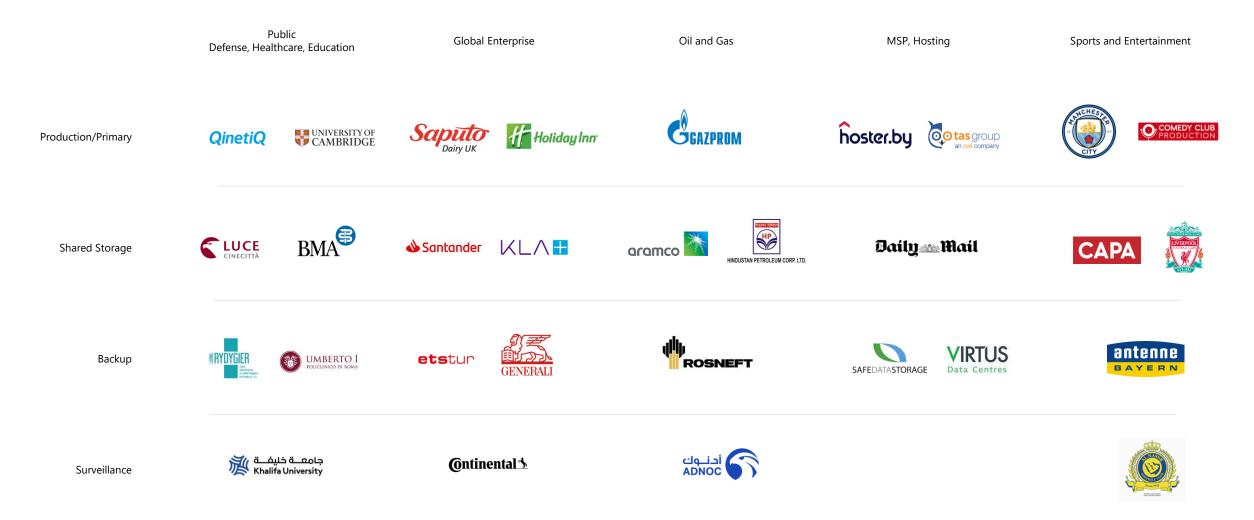
QSAN Product Positioning



Performance

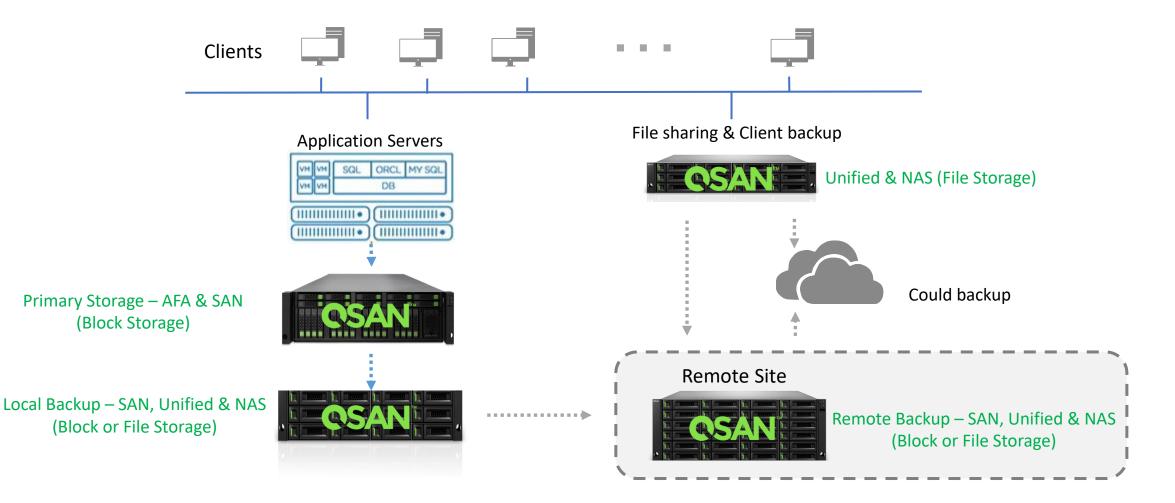


Our Customers



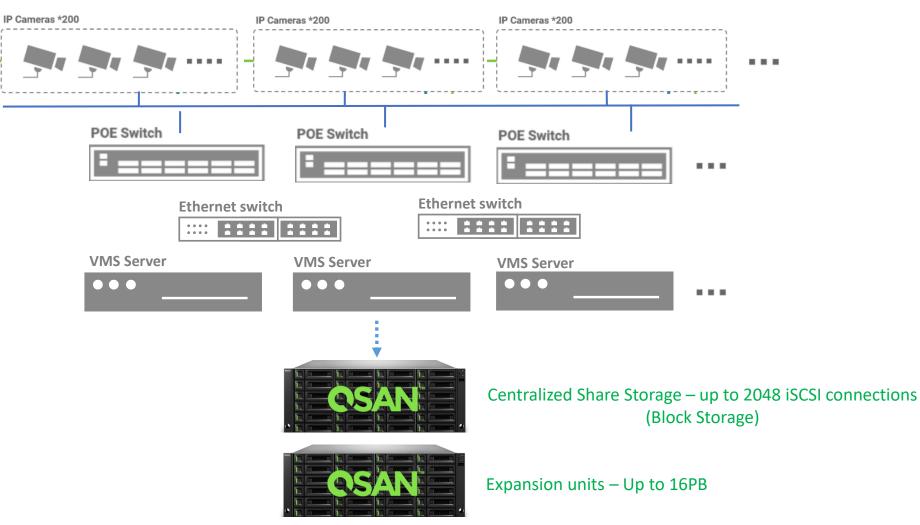


Target Application – Enterprise IT





Target Application – Large Surveillance



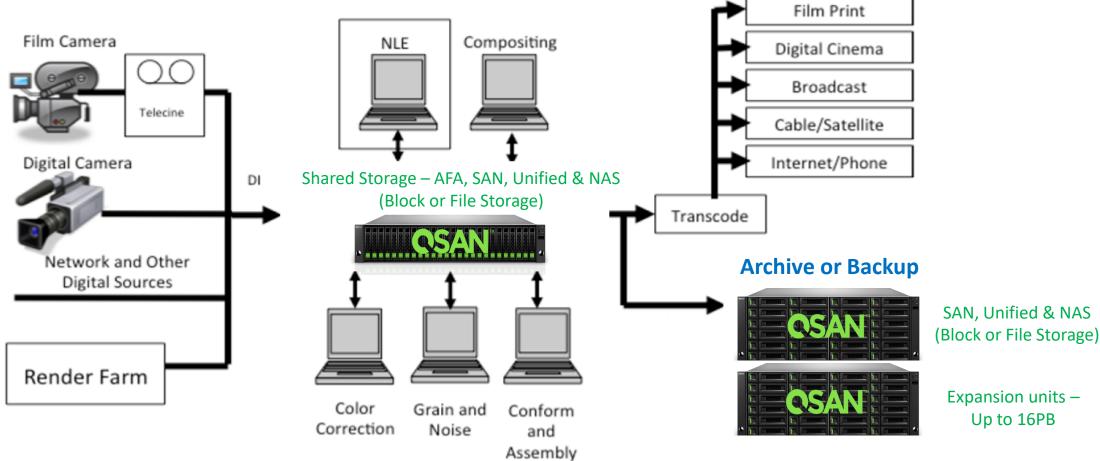


Content Distribution

Target Application – Media Editing

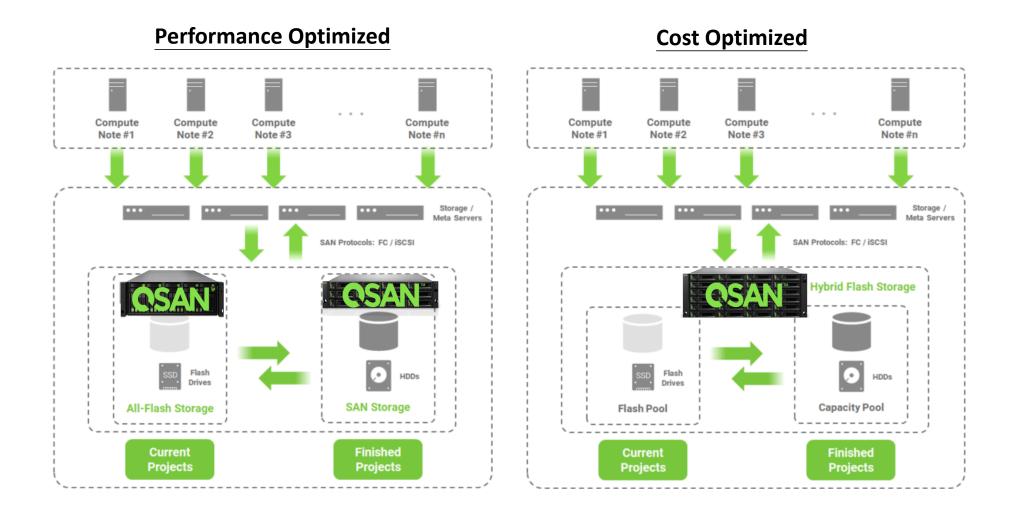
Content Acquisition

NLE/Post Production



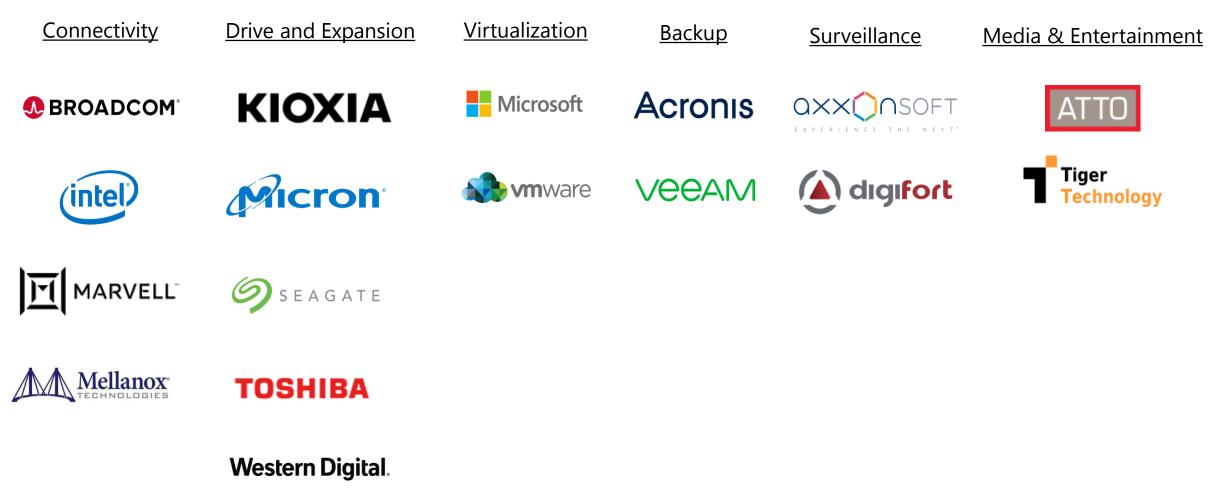


Ideal Application – HPC & AI



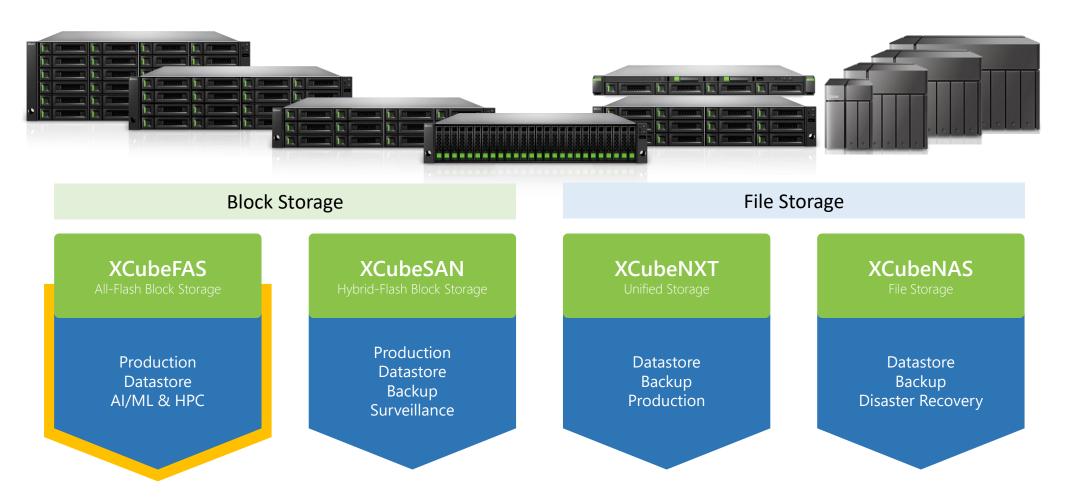


Expanding Ecosystem Partners





XCube Platform – One Architecture





Media Awards



"QSAN's 3126D is **one of the better** entry-level all-flash arrays we've come across"

TPro.

EDITOR'S CHOICE

FIVE STARTS - "Qsan delivers an enterpriseclass NVMe AFA at an SMB price"

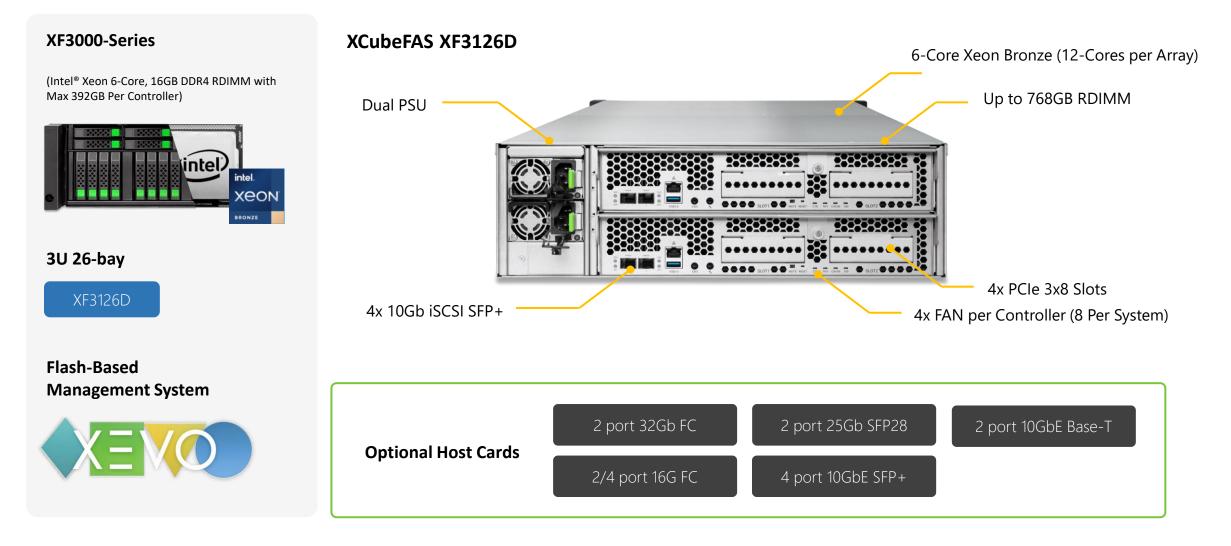


GAME CHANGER- "As the first native NVMe AFA with a price tag below \$20K, the XCubeFAS XF3126D is a game changer."

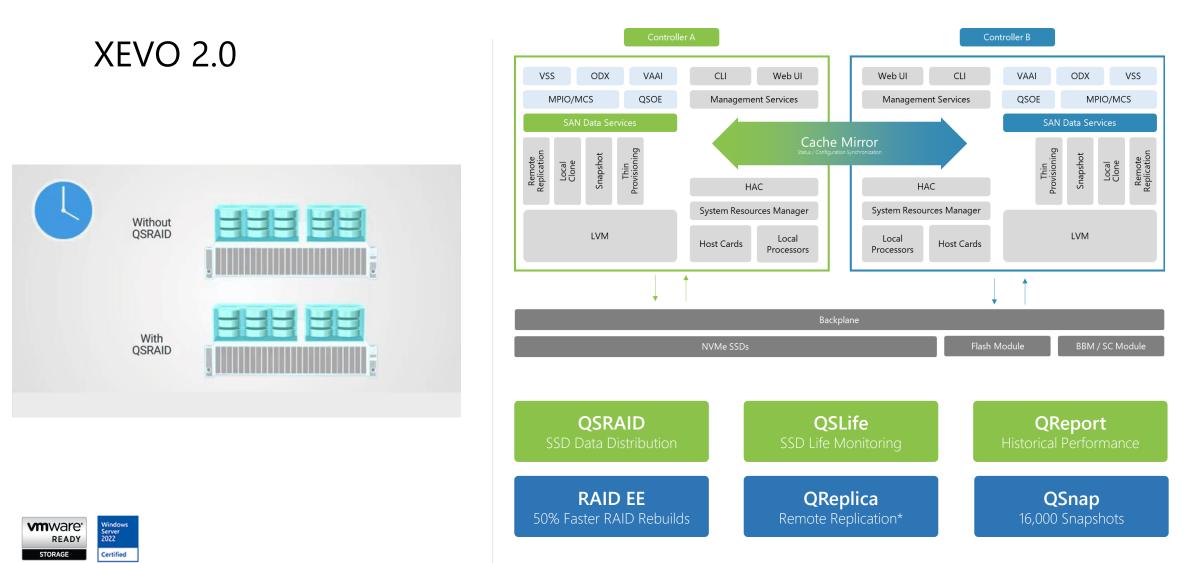




XCubeFAS Gen2, Product Line



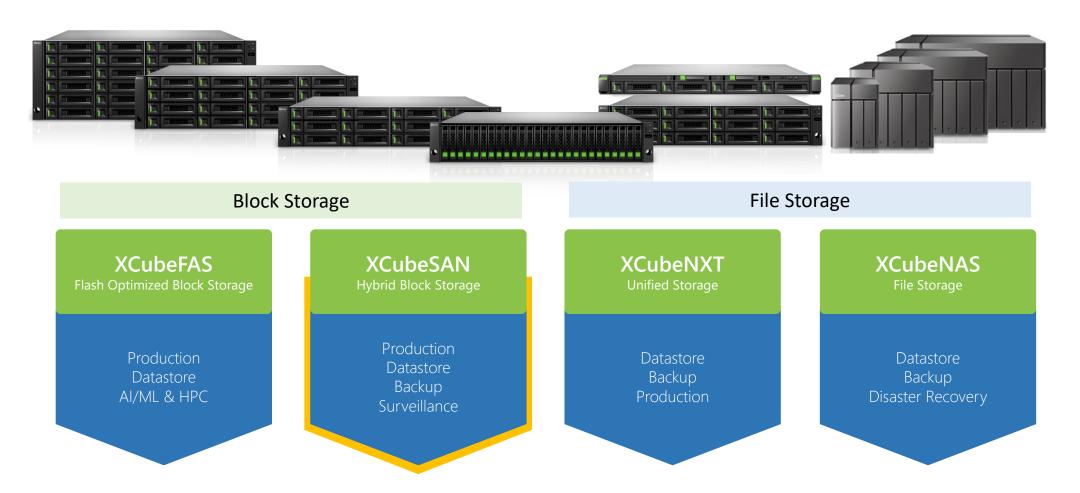




* Synchronous (optional license) /Asynchronous (built-in) block-level, differential volume backup

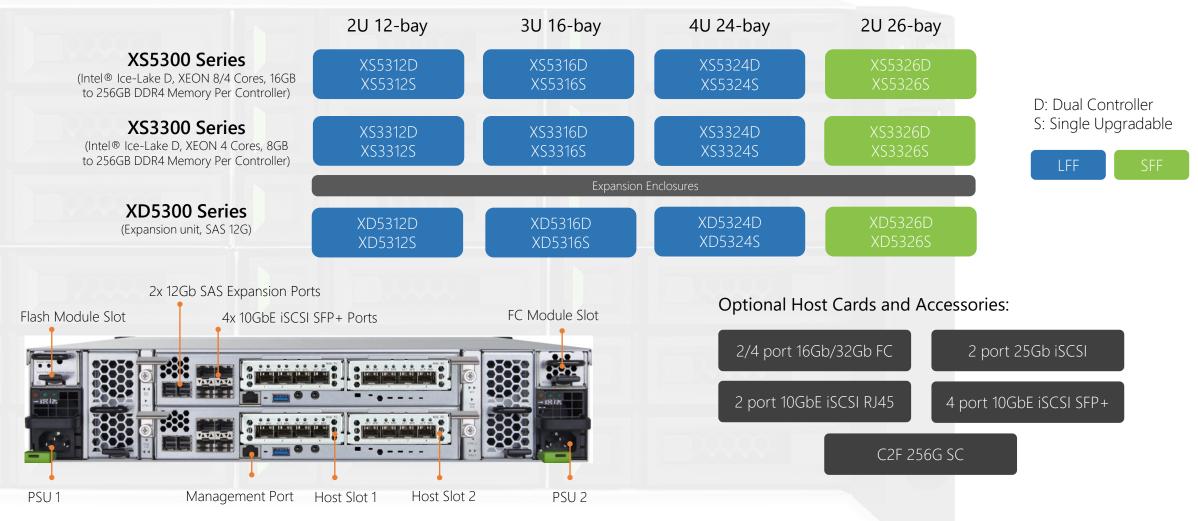


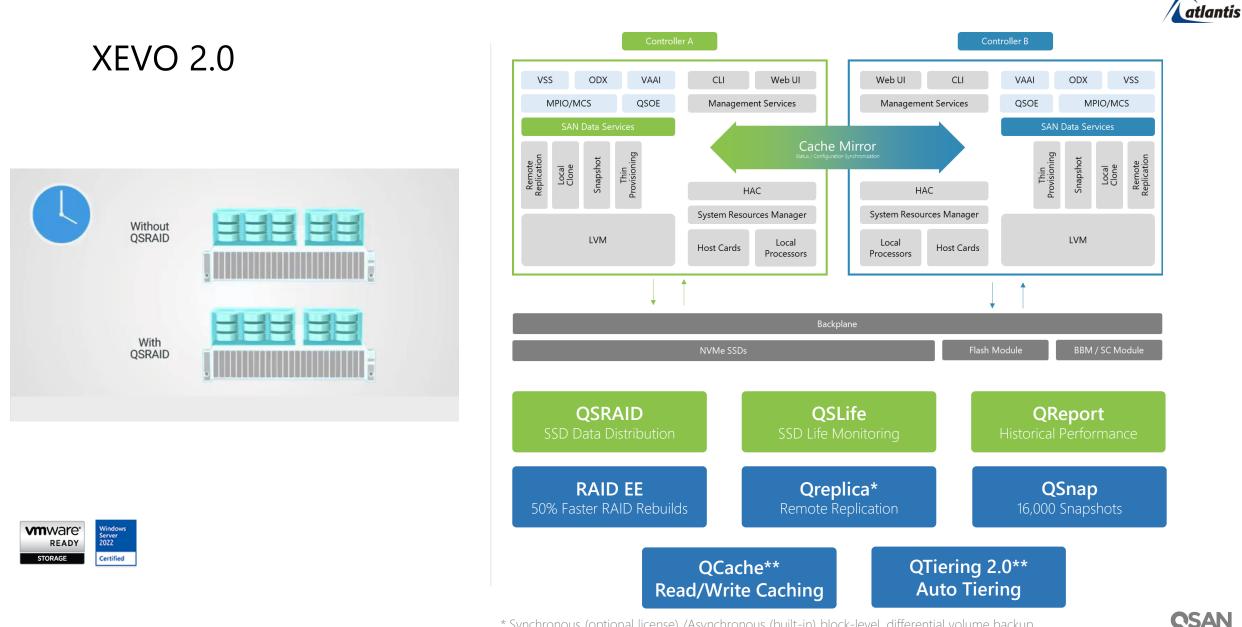
XCube Platform – One Architecture





XCubeSAN Product Line



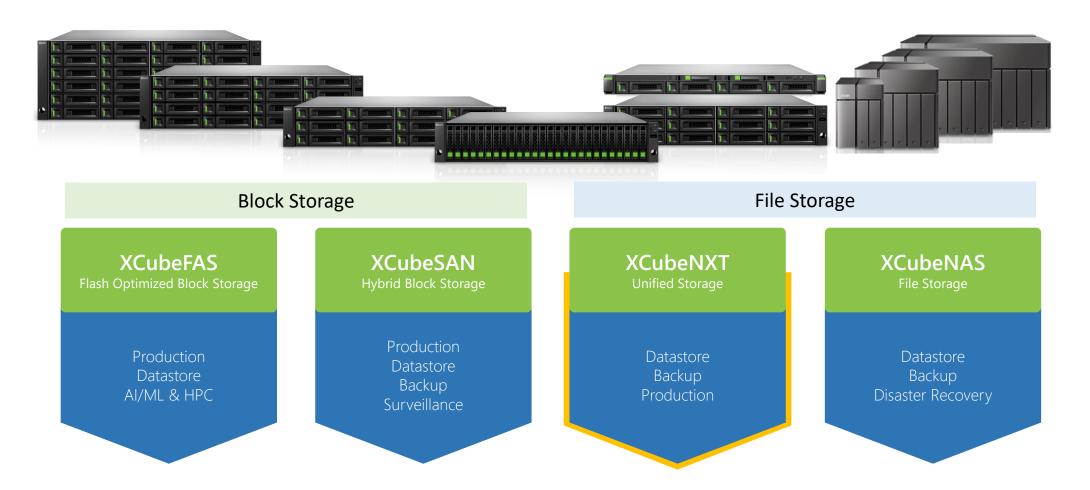


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* Synchronous (optional license) /Asynchronous (built-in) block-level, differential volume backup ** Optional license



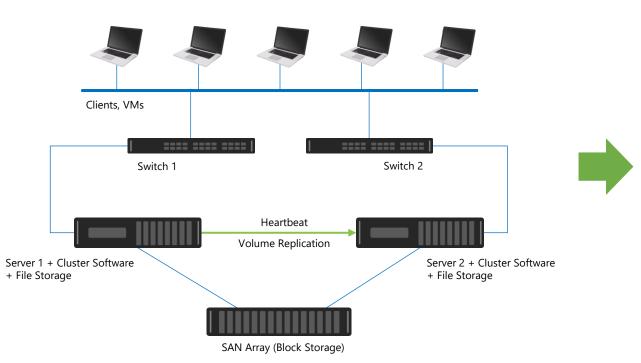
XCube Platform – One Architecture



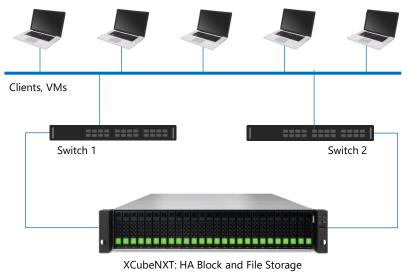


HA Unified Storage

Traditional HA Cluster



Unified Storage

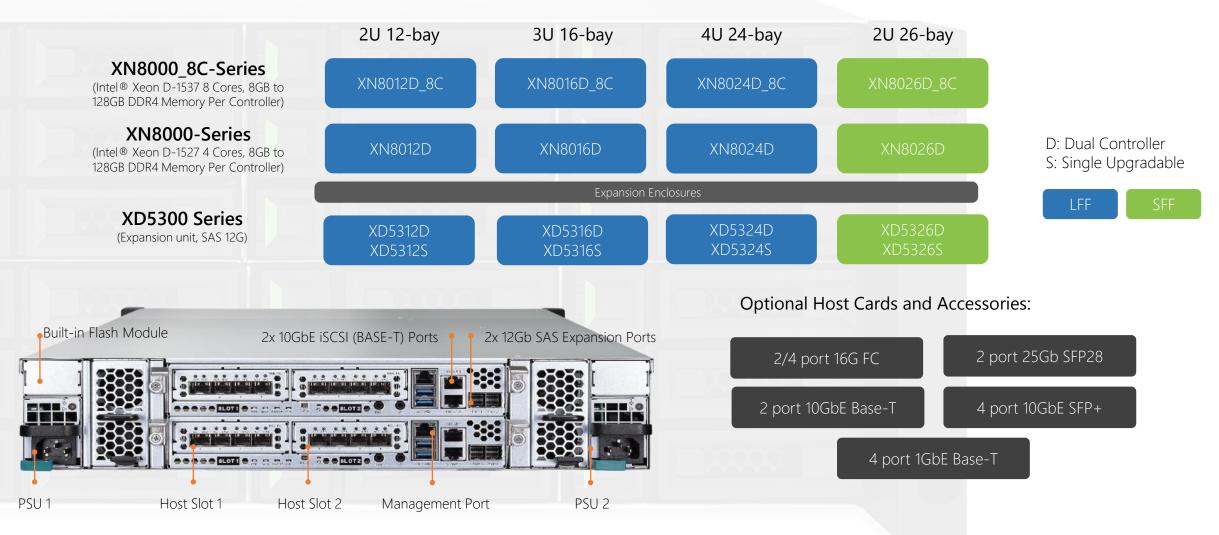


Applications:

- File Sharing
- Backup and Archive
- NLE/Post Production
- Light-loaded Virtualization



XCubeNXT Product Line





XCubeNXT – Ultra High Availability 99.9999%







QSAN Storage Manager (QSM) - Data Management System



ZFS Checksum

Every read/write is checksumed. ZFS will calculate the checksum and compare it with the original, checksum, if not match, it automatically repairs the damage, using data from the other mirror to ensure the correctness of the data.

Copy on Write (COW)

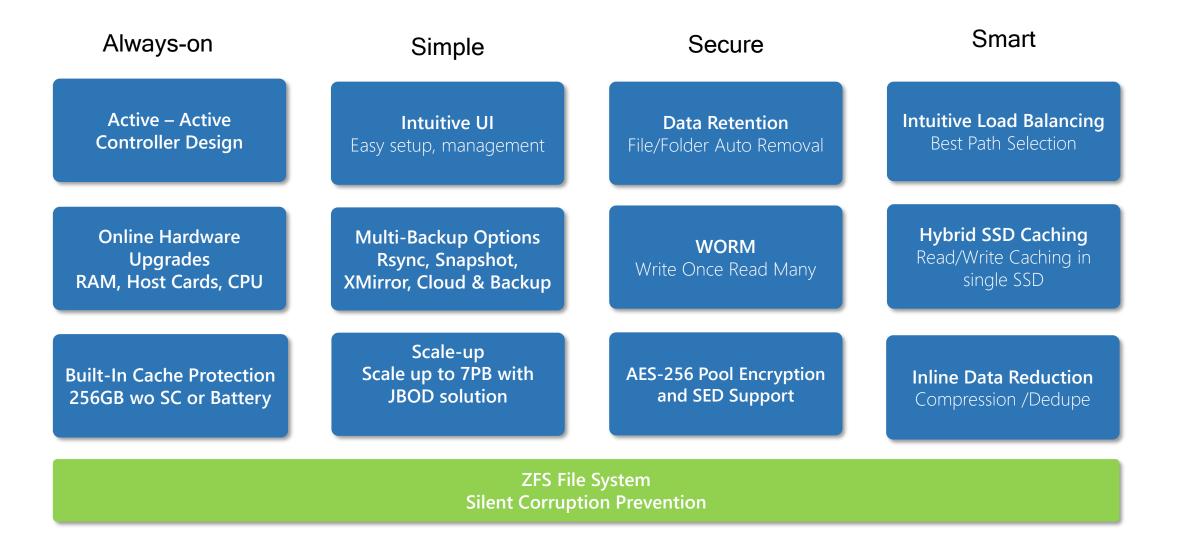
Find free blocks to write new data instead of overwrite the blocks of existing data. The existing data will be kept intact in the cases of power loss or system crash when write operation is not completed.

128-bit File System

No practical limit for single volume or single file size (Max.16EB). Futureproof scale-up capability

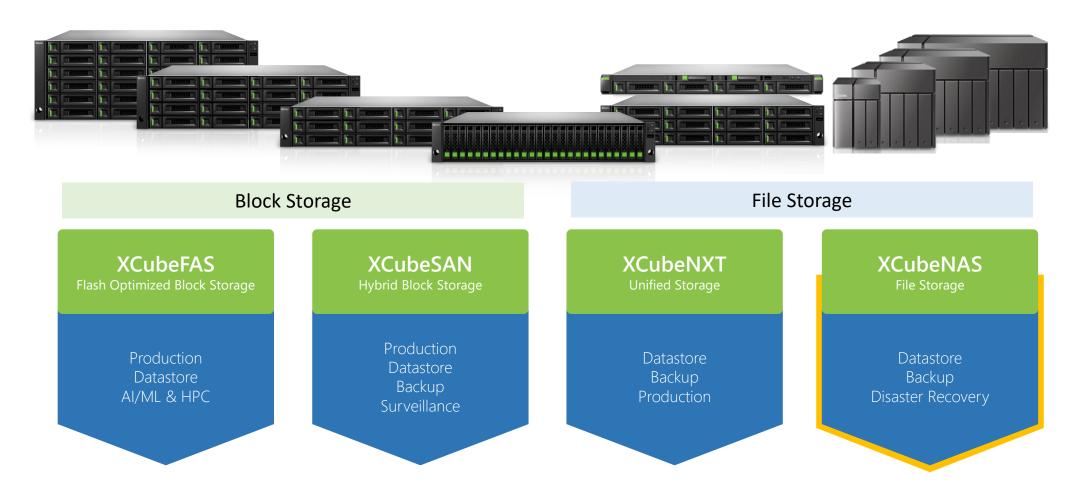


XCubeNXT Highlights





XCube Platform – One Architecture





iF

XCubeNAS Product Line

2 Bay 4 Bay 8-12 Bay 16-24 Bay XN8024R XN8012S RE XN8012R XN8016R XN8008R/T XN7012R XN7024R XN7004R/T XN7008R/T XN7016R XN5012R XN5004R/T XN5008R/T XN3002T XN3004R/T 0 0 **OSAN**

XN8000-Series Rack Models: Intel Kaby Lake Xeon E3, Tower Models: Intel Kaby Lake i5

XN7000-Series Rack Models: Intel Kaby Lake i3 Tower Models: i3 / Pentium Q-Core

XN5000-Series Rack Models: Intel Kaby Lake Celeron Tower Models: Intel Kaby Lake Celeron

XN3000-Series Tower Models: Intel Apollo Lake Celeron

N Rack models with N-number of additional SSD bays

- New 8-12 Bay Rack series without additional SSD Bays
- All tower models are equipped with 1 additional SSD bay
 - * All Rack models come with redundant PSUs

Integrated Storage Platform



NOW IT'S POSSIBLE with QSAN and WD

WD JBOD

Form Factors 4U60, 4U102

Capacity Up to 7PB Interfaces 12x Mini SAS Ports **SSD Support** Up to 24 per JBOD



Scale-up with WD JBODs







Capacity Up to 7.78PB

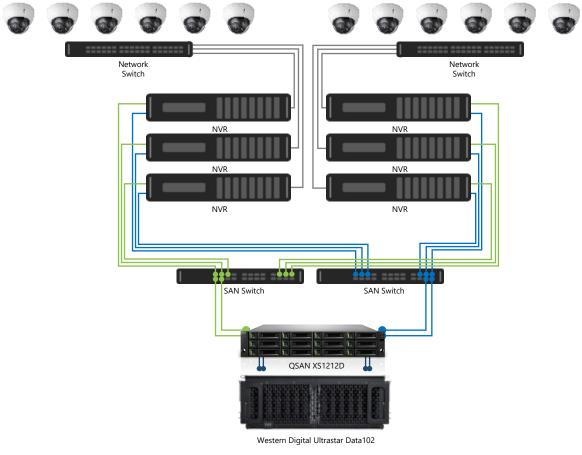
QSAN Models (XCubeSAN/XCub eNXT/XCubeNAS)	WD Expansion Enclosure	Max. No. of Enclosure	Max. No. of Disk Drives	Rack Space (U)	Max. Raw Capacity (LFF 22TB, SFF 15.36TB)	Capacity Density (TB/U)
LFF 2U 12-bay	Ultrastar Data102 (4U 102-bay)	4	12 + 4 x 102 = 420	18	9.24 PB	513 TB/U
LFF 3U 16-bay	Ultrastar Data102 (4U 102-bay)	4	16 + 4 x 102 = 424	19	9.33 PB	491 TB/U
LFF 4U 24-bay	Ultrastar Data102 (4U 102-bay)	4	24 + 4 x 102 = 432	20	9.50 PB	475 TB/U
SFF 2U 26-bay	Ultrastar Data102 (4U 102-bay)	4	26 + 4 x 102 = 434	18	9.37 PB	520 TB/U



Large Scale Surveillance



>1000 IP cameras in a single array

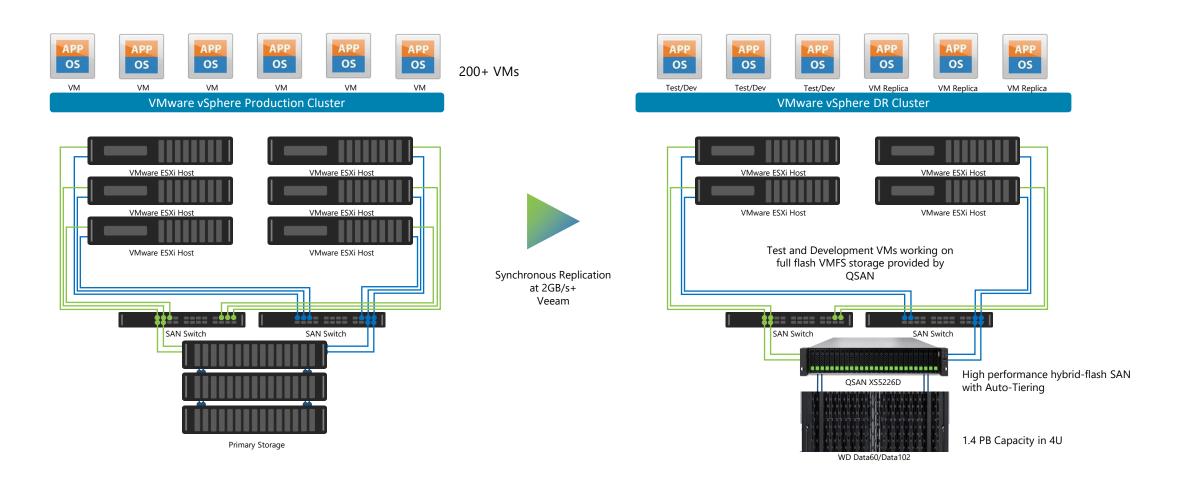


Over 1PB usable capacity

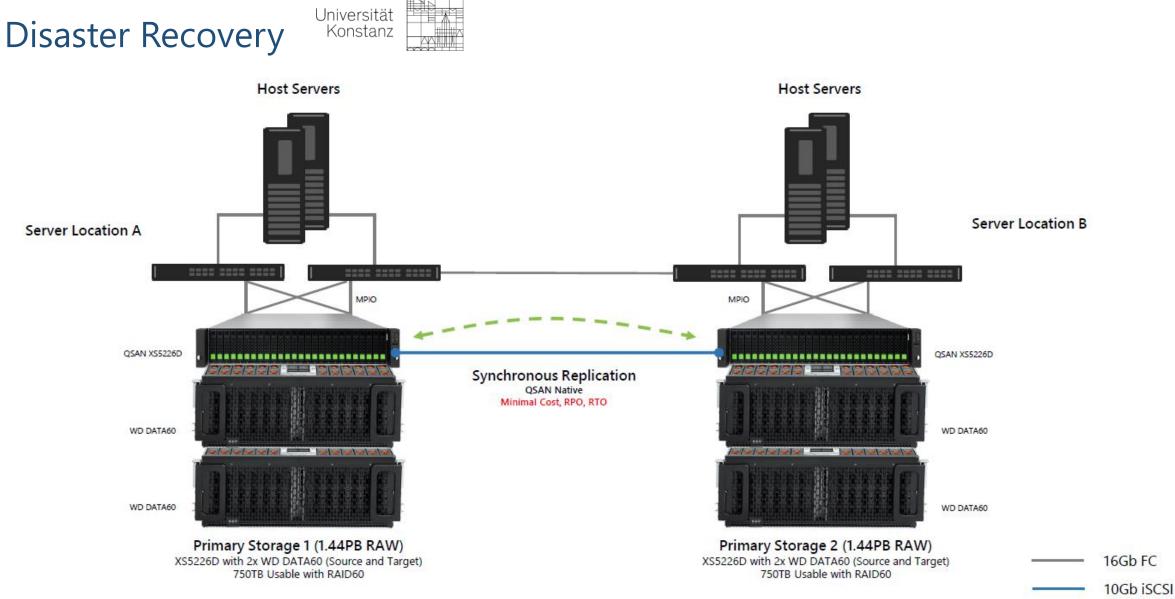


Powerful VM Backup

etstur







Thank you for your attention.



071 082 079 087 073 078 071 032 087 073 084 072 032 080 065 082 084 078 069 082 083 068 069 076 073 086 069 082 073 078 071 032 085 078 073 081 085 069 032 080 082 079 068 085 067 084 032 086 065 076 085 069 013 010