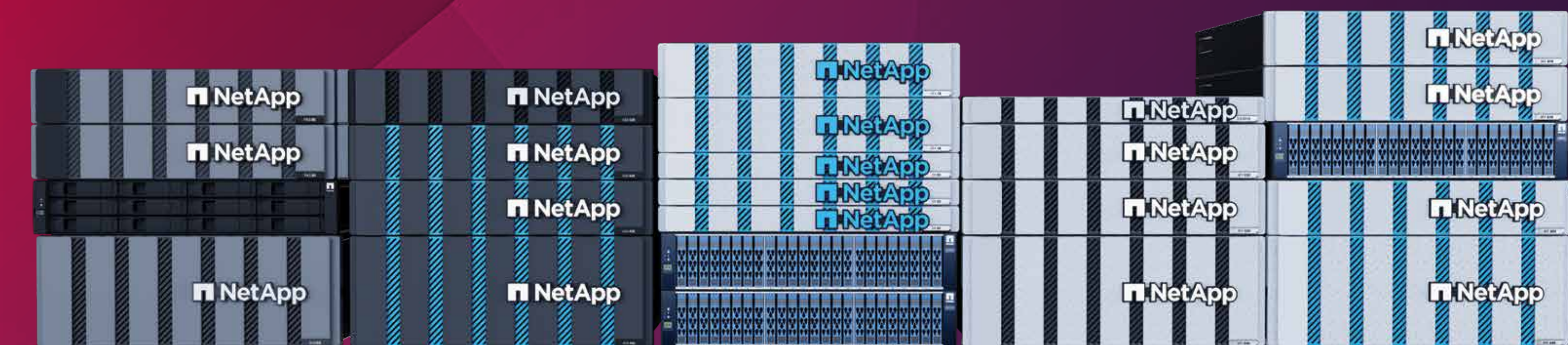


THE INTELLIGENT DATA INFRASTRUCTURE COMPANY



AFX DISAGGREGATED PERFORMANCE FLASH

AFX 1K	AFX 2K	AFX 4K	AFX 8K	AFX 16K	AFX 32K
PER CONTROLLER SPECIFICATIONS					
Max Raw Capacity Base-10 Base-2	Coming Soon*	Coming Soon*	Coming Soon*	Coming Soon*	Coming Soon*
Data Access Protocols	NFS, pNFS, SMB, S3, NFS/RDMA	NFS, pNFS, SMB, S3, NFS/RDMA	NFS, pNFS, SMB, S3, NFS/RDMA	NFS, pNFS, SMB, S3, NFS/RDMA	NFS, pNFS, SMB, S3, NFS/RDMA
Cluster Nodes Maximum	Coming Soon*	Coming Soon*	Coming Soon*	Coming Soon*	Coming Soon*
Storage Enclosures Maximum	Coming Soon*	Coming Soon*	Coming Soon*	Coming Soon*	Coming Soon*
Drive Capacities Available	7.6TB, 15.3TB, 30.7TB, 61.4TB	7.6TB, 15.3TB, 30.7TB, 61.4TB	7.6TB, 15.3TB, 30.7TB, 61.4TB	7.6TB, 15.3TB, 30.7TB, 61.4TB	7.6TB, 15.3TB, 30.7TB, 61.4TB
Data Compute Nodes Maximum	10 Nodes	10 Nodes	10 Nodes	10 Nodes	10 Nodes
PER CONTROLLER SPECIFICATIONS					
Form Factor Controller	2 RU	2 RU	2 RU	2 RU	2 RU
Weight English Metric	59.5 lb 27 kg	59.5 lb 27 kg	59.5 lb 27 kg	59.5 lb 27 kg	59.5 lb 27 kg
Processor	2x 64-bit	2x 64-bit	2x 64-bit	2x 64-bit	2x 64-bit
Memory	1024GB	1024GB	1024GB	1024GB	1024GB
I/O Expansion Available Slots	8x Slots PCIe Gen5	8x Slots PCIe Gen5	8x Slots PCIe Gen5	8x Slots PCIe Gen5	8x Slots PCIe Gen5
Ethernet Maximum Ports	8x 400GbE 8x 200GbE 10x 100GbE	8x 400GbE 8x 200GbE 10x 100GbE	8x 400GbE 8x 200GbE 10x 100GbE	8x 400GbE 8x 200GbE 10x 100GbE	8x 400GbE 8x 200GbE 10x 100GbE
Minimum OS Supported Version	ONTAP 9.17.1	ONTAP 9.17.1	ONTAP 9.17.1	ONTAP 9.17.1	ONTAP 9.17.1

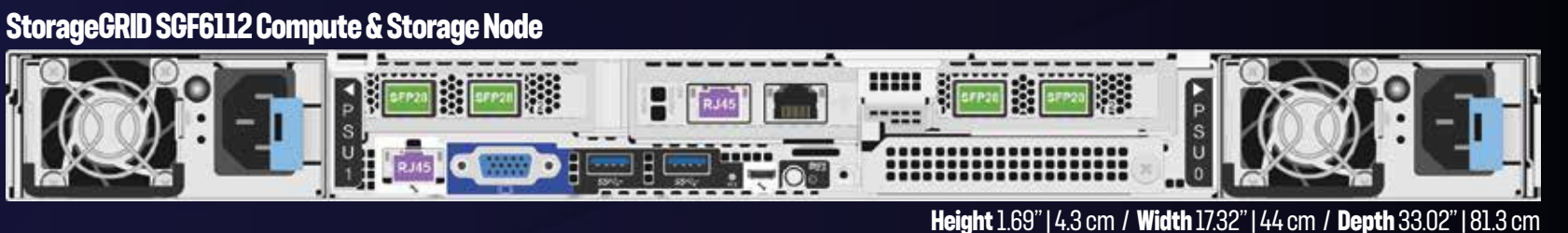
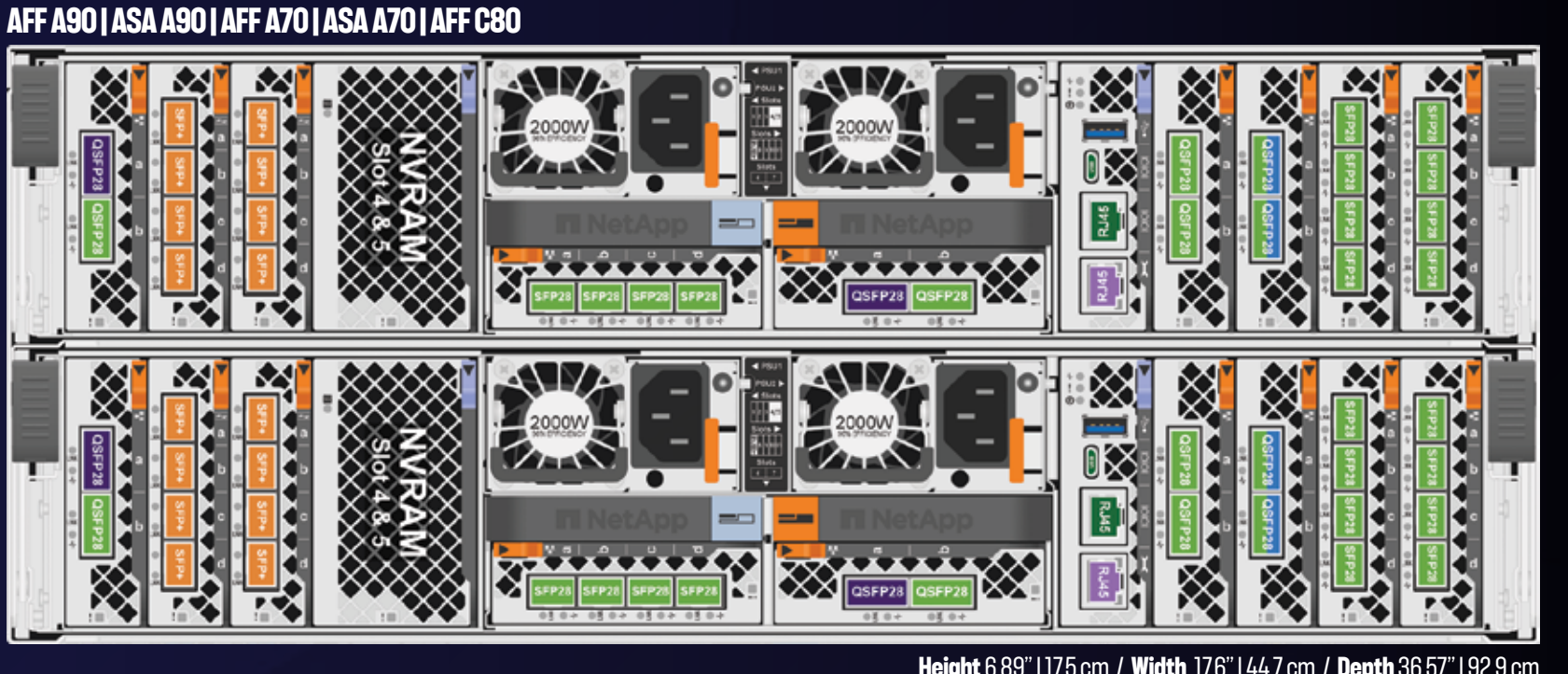
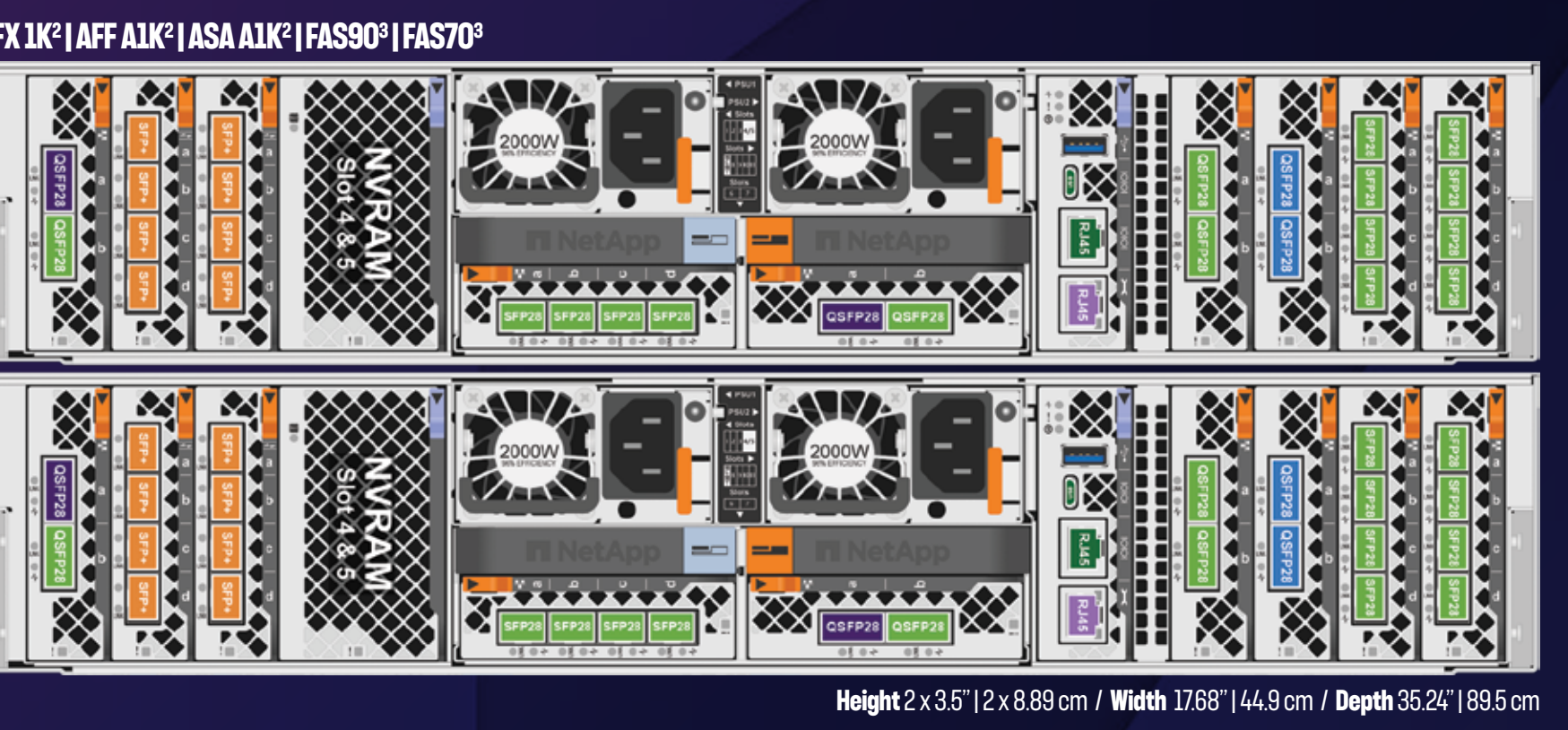
AFF A-SERIES UNIFIED PERFORMANCE FLASH

AFF A1K	AFF A90	AFF A70	AFF A50	AFF A30	AFF A20	
PER HA PAIR SPECIFICATIONS ACTIVE-ACTIVE DUAL CONTROLLER						
Max Raw Capacity Base-10 Base-2	3.7 PB 3.3 PiB	3.7 PB 3.3 PiB	3.7 PB 3.3 PiB	1.8 PB 1.6 PiB	1.1 PB 1.0 PiB	734 TB 667 TiB
Effective Capacity* Base-10 Base-2	15.4 PB 13.7 PiB	15.4 PB 13.7 PiB	15.4 PB 13.7 PiB	14.7 PB 13.1 PiB	4.8 PB 4.3 PiB	3.2 PB 2.8 PiB
Data Access Protocols	FC, iSCSI, NVMe/FC, NVMe/TCP, NFS, SMB, S3	FC, iSCSI, NVMe/FC, NVMe/TCP, NFS, SMB, S3	FC, iSCSI, NVMe/FC, NVMe/TCP, NFS, SMB, S3	FC, iSCSI, NVMe/FC, NVMe/TCP, NFS, SMB, S3	FC, iSCSI, NVMe/FC, NVMe/TCP, NFS, SMB, S3	FC, iSCSI, NVMe/FC, NVMe/TCP, NFS, SMB, S3
Cluster Nodes Maximum NAS SAN	24 12 Nodes	24 12 Nodes	24 12 Nodes	24 12 Nodes	8 8 Nodes	6 6 Nodes
Drive Quantity Maximum	240 NVMe SSD 48 internal + 192 external	240 NVMe SSD 48 internal + 192 external	240 NVMe SSD 48 internal + 192 external	120 NVMe SSD 24 internal + 96 external	72 NVMe SSD 24 internal + 48 external	48 SAS SSD 24 internal + 24 external
Drive Capacities Available	3.8TB, 7.6TB, 15.3TB	3.8TB, 7.6TB, 15.3TB	3.8TB, 7.6TB, 15.3TB	1.9TB, 3.8TB, 7.6TB, 15.3TB	1.9TB, 3.8TB, 7.6TB, 15.3TB	1.9TB, 3.8TB, 7.6TB, 15.3TB
Form Factor Controller	4 RU 2x 2U Chassis	4 RU 48 internal SSD slots	4 RU 48 internal SSD slots	2 RU 24 internal SSD slots	2 RU 24 internal SSD slots	2 RU 24 internal SSD slots
Weight English Metric	119 lb 54 kg	170.4 lb 77.3 kg	170.4 lb 77.3 kg	60.7 lb 27.5 kg	60.7 lb 27.5 kg	60.7 lb 27.5 kg
Processor	4x 64-bit	4x 64-bit	4x 64-bit	2x 64-bit	2x 64-bit	2x 64-bit
Memory	2048GB	2048GB	256GB	256GB	128GB	128GB
I/O Expansion Available Slots	18x Slots PCIe Gen5	18x Slots PCIe Gen5	18x Slots PCIe Gen5	8x Slots PCIe Gen5	8x Slots PCIe Gen5	8x Slots PCIe Gen5
Fibre Channel Maximum Ports	48x 64Gb FC 48x 32Gb FC 48x 16Gb FC	56x 64Gb FC 56x 32Gb FC 56x 16Gb FC	56x 64Gb FC 56x 32Gb FC 56x 16Gb FC	24x 64Gb FC 24x 32Gb FC 24x 16Gb FC	24x 64Gb FC 24x 32Gb FC 24x 16Gb FC	24x 32Gb FC 24x 16Gb FC
Ethernet Maximum Ports	24x 200GbE 36x 100GbE 56x 25GbE 48x 10GbE	24x 200GbE 36x 100GbE 56x 25GbE 56x 10GbE	24x 200GbE 36x 100GbE 56x 25GbE 56x 10GbE	16x 100GbE 24x 25GbE 24x 10GbE	16x 100GbE 24x 25GbE 24x 10GbE	12x 100GbE 24x 25GbE 24x 10GbE
Minimum OS Supported Version	ONTAP 9.15.1	ONTAP 9.15.1	ONTAP 9.15.1	ONTAP 9.16.1	ONTAP 9.16.1	ONTAP 9.16.1

LEGEND PRODUCT REAR VIEWS

PORT IDENTIFICATION
AFF A/C-Series | ASA A/C-Series | FAS Series

- Host Network Fibre Channel
- Host Network Ethernet
- Storage Connection Ethernet
- Cluster/HA Connection Ethernet
- Management Ethernet
- Serial Console USB | RS-232
- PORT IDENTIFICATION StorageGRID
- Grid & Client Network Ethernet
- Management Ethernet
- Serial Console RS-232



AFF C-SERIES UNIFIED CAPACITY FLASH

AFF C80	AFF C60	AFF C30	
PER HA PAIR SPECIFICATIONS ACTIVE-ACTIVE DUAL CONTROLLER			
Max Raw Capacity Base-10 Base-2	14.7 PB 13.1 PiB	7.4 PB 6.5 PiB	2.2 PB 2.0 PiB
Effective Capacity* Base-10 Base-2	58.9 PB 52.3 PiB	29.5 PB 26.2 PiB	7.3 PB 6.5 PiB
Data Access Protocols	FC, iSCSI, NVMe/FC, NVMe/TCP, NFS, SMB, S3	FC, iSCSI, NVMe/FC, NVMe/TCP, NFS, SMB, S3	FC, iSCSI, NVMe/FC, NVMe/TCP, NFS, SMB, S3
Cluster Nodes Maximum NAS SAN	24 12 Nodes	8 8 Nodes	8 8 Nodes
Drive Quantity Maximum	240 NVMe QLC SSD 48 internal + 96 external	120 NVMe QLC SSD 24 internal + 96 external	72 NVMe QLC SSD 24 internal + 48 external
Drive Capacities Available	30.7TB, 61.4TB	15.3TB, 30.7TB, 61.4TB	15.3TB, 30.7TB
Form Factor Controller	4 RU 48 internal SSD slots	2 RU 24 internal SSD slots	2 RU 24 internal SSD slots
Weight English Metric	162 lb 73.5 kg	60.7 lb 27.5 kg	60.7 lb 27.5 kg
Processor	4x 64-bit	2x 64-bit	2x 64-bit
Memory	512GB	128GB	128GB
I/O Expansion Available Slots	18x Slots PCIe Gen5	8x Slots PCIe Gen5	8x Slots PCIe Gen5
Fibre Channel Maximum Ports	56x 64Gb FC 56x 32Gb FC 56x 16Gb FC	24x 64Gb FC 24x 32Gb FC 24x 16Gb FC	24x 64Gb FC 24x 32Gb FC 24x 16Gb FC
Ethernet Maximum Ports	24x 200GbE 36x 100GbE 56x 25GbE 56x 10GbE	16x 100GbE 24x 25GbE 24x 10GbE	16x 100GbE 24x 25GbE 24x 10GbE
Minimum OS Supported Version	ONTAP 9.16.1	ONTAP 9.16.1	ONTAP 9.16.1

ASA A-SERIES | C-SERIES SAN-OPTIMIZED PERFORMANCE AND CAPACITY FLASH

ASA A1K	ASA A90	ASA A70	ASA A50	ASA A30	ASA A20	ASA C30
PER HA PAIR SPECIFICATIONS ACTIVE-ACTIVE DUAL CONTROLLER						
Max Raw Capacity Base-10 Base-2	2.67 PB 2.4 PiB	2.67 PB 2.4 PiB	2.67 PB 2.4 PiB	1.83 PB 1.63 PiB	1.1 PB 1.0 PiB	734 TB 667 TiB
Effective Capacity* Base-10 Base-2	11.6 PB 10.3 PiB	11.6 PB 10.3 PiB	11.6 PB 10.3 PiB	8.0 PB 7.1 PiB	4.8 PB 4.3 PiB	3.2 PB 2.8 PiB
Data Access Protocols	FC, iSCSI, NVMe/FC, NVMe/TCP	FC, iSCSI, NVMe/FC, NVMe/TCP	FC, iSCSI, NVMe/FC, NVMe/TCP	FC, iSCSI, NVMe/FC, NVMe/TCP	FC, iSCSI, NVMe/FC, NVMe/TCP	FC, iSCSI, NVMe/FC, NVMe/TCP
Cluster Nodes Maximum SAN	12 Nodes	12 Nodes	12 Nodes	12 Nodes	8 Nodes	8 Nodes
Drive Quantity Maximum	240 NVMe SSD 48 internal + 192 external	240 NVMe SSD 48 internal + 192 external	240 NVMe SSD 48 internal + 192 external	120 NVMe SSD 24 internal + 96 external	72 NVMe SSD 24 internal + 48 external	48 NVMe SSD 24 internal + 24 external
Drive Capacities Available	3.8TB, 7.6TB, 15.3TB	3.8TB, 7.6TB, 15.3TB	3.8TB, 7.6TB, 15.3TB	1.9TB, 3.8TB, 7.6TB, 15.3TB	1.9TB, 3.8TB, 7.6TB, 15.3TB	1.9TB, 3.8TB, 7.6TB, 15.3TB
Form Factor Controller	4 RU 2x 2U Chassis	4 RU 48 internal SSD slots	4 RU 48 internal SSD slots	2 RU 24 internal SSD slots	2 RU 24 internal SSD slots	2 RU 24 internal SSD slots
Weight English Metric	119 lb 54 kg	170.4 lb 77.3 kg	170.4 lb 77.3 kg	60.7 lb 27.5 kg	60.7 lb 27.5 kg	60.7 lb 27.5 kg
Processor	4x 64-bit	4x 64-bit	4x 64-bit	2x 64-bit	2x 64-bit	2x 64-bit
Memory	2048GB	2048GB	256GB	256GB	128GB	128GB
I/O Expansion Available Slots	18x Slots PCIe Gen5	18x Slots PCIe Gen5	18x Slots PCIe Gen5	8x Slots PCIe Gen5	8x Slots PCIe Gen5	8x Slots PCIe Gen5
Fibre Channel Maximum Ports	48x 64Gb FC 48x 32Gb FC 48x 16Gb FC	56x 64Gb FC 56x 32Gb FC 56x 16Gb FC	56x 64Gb FC 56x 32Gb FC 56x 16Gb FC	24x 64Gb FC 24x 32Gb FC 24x 16Gb FC	24x 64Gb FC 24x 32Gb FC 24x 16Gb FC	24x 32Gb FC 24x 16Gb FC
Ethernet Maximum Ports	24x 200GbE 36x 100GbE 48x 25GbE 48x 10GbE	24x 200GbE 36x 100GbE 56x 25GbE 56x 10GbE	24x 200GbE 36x 100GbE 56x 25GbE 56x 10GbE	16x 100GbE 24x 25GbE 24x 10GbE	16x 100GbE 24x 25GbE 24x 10GbE	16x 100GbE 24x 25GbE 24x 10GbE
Minimum OS Supported Version	ONTAP 9.16.0	ONTAP 9.16.0	ONTAP 9.16.0	ONTAP 9.16.1	ONTAP 9.16.1	ONTAP 9.16.1P3

FAS SERIES HYBRID FLASH

FAS90	FAS70	FAS50	FAS2820	FAS2750	
PER HA PAIR SPECIFICATIONS ACTIVE-ACTIVE DUAL CONTROLLER					
Max Raw Capacity Maximum Base-10 Base-2	14.7 PB 13.1 PiB	14.7 PB 13.1 PiB	11.5 PB 10.2 PiB	3.5PB 3.1PiB	1.2PB 1.1PiB
Onboard Flash Flash Cache NVRAM	8TB to 16TB 128GB	4TB to 12TB 64GB	4TB 32GB	2TB 16GB	2TB 8GB
Data Access Protocols	FC, iSCSI, NFS, SMB, S3	FC, iSCSI, NFS, SMB, S3	FC, iSCSI, NFS, SMB, S3	FC, FCoE, iSCSI, NFS, SMB, S3	FC, FCoE, iSCSI, NFS, SMB, S3
Cluster Nodes Maximum NAS SAN	24 12 Nodes	24 12 Nodes	8 8 Nodes	24 12 Nodes	24 12 Nodes
Drive Quantity Maximum	1440 HDD 480 SSD 24 internal + 1440 external	1440 HDD 480 SSD 22 internal + 132 external	480 HDD 120 SSD 12 internal + 458 external	144 HDD 112 SSD 12 internal + 132 external	144 HDD 144 SSD 24 internal + 120 external
Drive Capacities Available	NL-SAS 4TB, 10TB, 24TB SAS 1.9TB, 3.8TB, 7.6TB, 15.3TB	NL-SAS 4TB, 10TB, 24TB SAS 1.9TB, 3.8TB, 7.6TB, 15.3TB	NL-SAS 4TB, 10TB, 24TB SAS 1.9TB, 3.8TB, 7.6TB, 15.3TB	NL-SAS 4TB, 10TB, 24TB SAS 1.9TB, 3.8TB, 7.6TB, 15.3TB	SAS 1.2TB, 1.8TB SAS 1.9TB, 3.8TB, 7.6TB, 15.3TB
Form Factor Controller	4 RU 2x 2U Chassis	4 RU 2x 2U Chassis	2 RU 24 internal drive bays	2 RU 12 internal drive bays	2 RU 24 internal drive bays
Weight English Metric	119 lb 54 kg	119 lb 54 kg	60.7 lb 27.5 kg	64.4 lb 29.2 kg	60.8 lb 27.6 kg
Processor	4x 64-bit	4x 64-bit	2x 64-bit	2x 64-bit	2x 64-bit
Memory	1024GB	256GB	128GB	128GB	64GB
I/O Expansion Available Slots	18x Slots PCIe Gen5	18x Slots PCIe Gen5	8x Slots PCIe Gen5	2x Slots PCIe Gen3	-
Fibre Channel Maximum Ports	48x 64Gb FC 48x 32Gb FC 48x 16Gb FC	48x 64Gb FC 48x 32Gb FC 48x 16Gb FC	24x 64Gb FC 24x 32Gb FC 24x 16Gb FC	8x 32Gb FC 8x 16Gb FC	8x 16Gb FC
Ethernet Maximum Ports	20x 200GbE 24x 100GbE 48x 25GbE 48x 10GbE	20x 200GbE 24x 100GbE 48x 25GbE 48x 10GbE	16x 100GbE 24x 25GbE 24x 10GbE	8x 25GbE 8x 10GbE	12x 10GbE
Minimum OS Supported Version	ONTAP 9.15.1	ONTAP 9.15.1	ONTAP 9.16.1	ONTAP 9.15.1	ONTAP 9.8

STORAGEGRID OBJECT STORAGE

S6F612	S6G180	S6S860	S6E812	S6L100/S6L10	
STORAGE SPECIFICATIONS					
Raw Capacity Maximum Base-10	23TB 1.9TB SED 46TB 3.8TB SED 184.3TB 15.3TB SED 368.6TB 30.7TB NSED 737.2TB 61.4TB SED	720TB 4TB HDD Non-FDE 1,440TB 8TB HDD Non-FDE 1,800TB 10TB HDD FIPS 2,160TB 12TB HDD Non-FDE 3,868TB 24TB HDD Non-FDE 4,320TB 24TB HDD Non-FDE	240TB 4TB HDD Non-FDE 480TB 8TB HDD Non-FDE 600TB 10TB HDD FIPS 720TB 12TB HDD Non-FDE 1,320TB 24TB HDD Non-FDE 2,880TB 24TB HDD Non-FDE	48TB 4TB HDD Non-FDE 96TB 8TB HDD Non-FDE 120TB 10TB HDD FIPS 144TB 12TB HDD Non-FDE 2,640TB 24TB HDD Non-FDE 2,880TB 24TB HDD Non-FDE	3.8TB 1.9TB SED 7.6TB 3.8TB FIPS 30.7TB 15.3TB SED 61.4TB 30.7TB FIPS
Drive Quantity Maximum	12	60 with base S6G180 180 base + 1 exp shelf 180 base + 2 exp shelf	60	12	2
Memory	256GB	64GB	32GB	32GB	The S6L100 and S6L10 are service appliances which function as a Gateway & Admin node to the StorageGRID family.
COMPUTE SPECIFICATIONS					
Memory	256GB	256GB	64GB	64GB	256GB S6L100 128GB S6L10
Grid & Client Onboard Ports	4x 25/10GbE 4x 100GbE	4x 25/10GbE 4x 100GbE	4x 25/10GbE	4x 25/10GbE	4x 100/40/25/10GbE S6L100 4x 25/10GbE S6L10
PHYSICAL SPECIFICATIONS					
Form Factor	1 RU 12 internal drives	5 RU No exp shelf 60 drives 9 RU 1 exp shelf 120 drives 13 RU 2 exp shelf 180 drives	4 RU 8 internal drives	2 RU 2 internal drives	1 RU
Weight English Metric	43.3 lb 19.7 kg	264.5 lb 120 kg	253 lb 114.8 kg	64.9 lb 29.4 kg	40.9 lb 18.4 kg S6L100 40.5 lb 18.4 kg S6L10

NOTES

- Effective capacity is based on a 5:1 storage efficiency ratio in an HA pair configuration with the maximum number of SSDs installed. Actual space savings may vary depending on workload and use case.
- AFF A1K and ASA A1K configurations are shown with 64Gb FC adapters in slots 2 and 3, 25GbE adapters in slots 6, 10, and 11, and 200GbE adapters in slots 8 and 9. The AFX 1K supports a different set of adapter cards. Consult the HWU site at hwnetapp.com for more detailed information.
- FAS90 and FAS70 systems will have Flash Cache cards installed in slot 6. Consult the HWU site at hwnetapp.com for more detailed information.
- Information not finalized at time of print. Consult HWU site at hwnetapp.com for more detailed information.

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ACRONYMS