Overview

Install and maintain

NetApp
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Overview

Key specifications for AFF A70

The following are select specifications for the AFF A70. Visit NetApp Hardware Universe (HWU) for a complete list of AFF A70 specifications. This page is reflective of a single high availability pair.

Key specifications for AFF A70

Platform Configuration: AFF A70 Single Chassis HA Pair

Max Raw Capacity: 6.6096 PB

Memory: 256.0000 GB

Form Factor: 4U chassis with 2 HA controllers and 48 drive slots

ONTAP Version: b_startONTAP: 9.16.1P2b_end

PCIe Expansion Slots: 18

Minimum ONTAP Version: ONTAP 9.15.1RC2

Scaleout Maximums

- NAS: 12 HA Pairs, 79.3 PB / 70.4 PiB Raw Capacity, 3072 GB Max Memory
- SAN: 6 HA Pairs, 39.7 PB / 35.2 PiB Raw Capacity, 1536 GB Max Memory
- HA Pair: 6.6 PB / 5.9 PiB Raw Capacity, 256.0000 GB Max Memory

IO

Onboard IO

No onboard IO data.

Total IO

- Ethernet 200 Gbps: 24 Ports
- Ethernet 100 Gbps: 36 Ports
- Ethernet 25 Gbps: 56 Ports
- Ethernet 10 Gbps: 56 Ports
- FC 64 Gbps: 56 Ports
- NVMe/FC 64 Gbps: 56 Ports
- SAS 12 Gbps: 56 Ports

Management Ports

- Ethernet 1 Gbps: 2 Ports

- RS-232 115 Kbps: 4 Ports
- USB 600 Mbps: 2 Ports

Storage Networking Supported

CIFS; FC; iSCSI; NFS v3; NFS v4.0; NFS v4.1; NFS v4.2; NFSv3/RDMA; NFSv4/RDMA; NVMe/FC ; NVMe/TCP; S3; S3 with NAS; SMB 2.0; SMB 2.1; SMB 2.x; SMB 3.0; SMB 3.1; SMB 3.1.1;

System Environment Specifications

- Typical Power: 6938 BTU/hr
- Worst-case Power: 9089 BTU/hr
- Weight: 118.0 lb 53.5 kg
- Height: 4U
- Width: 19” IEC rack-compliant (17.6” 44.7 cm)
- Depth: 34.5” (36.6” with cable management bracket)
- Operating Temp/Altitude/Humidity: 10°C to 35°C 50°F to 95°F) at ⇐ 3048m ⇐ 10000 ft) elevation;8% to 80% relative humidity, noncondensing
- Non-operating Temp/Humidity: -40°C to 70°C (-40°F to 158°F) up to 12192m (40000 ft) 10% to 95% relative humidity, noncondensing, in original container
- Acoustic Noise: Declared sound power (LwAd): 8.6; Sound pressure (LpAm) (bystander positions): 71.6 dB

Compliance

- Certifications EMC/EMI: AMCA, FCC, ICES, KC, Morocco, VCCI
- Certifications safety: BIS, CB, CSA, G_K_U-SoR, IRAM, NOM, NRCS, SONCAP, TBS
- Certifications Safety/EMC/EMI: EAC, UKRSEPRO
- Certifications Safety/EMC/EMI/RoHS: BSMI, CE DoC, UKCA DoC
- Standards EMC/EMI: BS-EN-55032, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
- Standards Safety: ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 15598-1, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)

High Availability

Ethernet based baseboard management controller (BMC) and ONTAP management interface; Redundant hot-swappable controllers; Redundant hot-swappable power supplies; SAS in-band management over SAS connections for external shelves; [//] 2025-10-15 ontap-systems-internal/issues/1357

Key specifications for AFF A90

The following are select specifications for the AFF A90. Visit NetApp Hardware Universe (HWU) for a complete list of AFF A90 specifications. This page is reflective of a single high availability pair.

Key specifications for AFF A90

Platform Configuration: AFF A90 Single Chassis HA Pair

Max Raw Capacity: 6.6096 PB

Memory: 2048.0000 GB

Form Factor: 4U chassis with 2 HA controllers and 48 drive slots

ONTAP Version: b_startONTAP: 9.16.1P2b_end

PCIe Expansion Slots: 18

Minimum ONTAP Version: ONTAP 9.15.1RC2

Scaleout Maximums

- NAS: 12 HA Pairs, 79.3 PB / 70.4 PiB Raw Capacity, 24576 GB Max Memory
- SAN: 6 HA Pairs, 39.7 PB / 35.2 PiB Raw Capacity, 12288 GB Max Memory
- HA Pair: 6.6 PB / 5.9 PiB Raw Capacity, 2048.0000 GB Max Memory

IO

Onboard IO

No onboard IO data.

Total IO

- Ethernet 200 Gbps: 24 Ports
- Ethernet 100 Gbps: 36 Ports
- Ethernet 25 Gbps: 56 Ports
- Ethernet 10 Gbps: 56 Ports
- FC 64 Gbps: 56 Ports
- NVMe/FC 64 Gbps: 56 Ports
- SAS 12 Gbps: 56 Ports

Management Ports

- Ethernet 1 Gbps: 2 Ports
- RS-232 115 Kbps: 4 Ports
- USB 600 Mbps: 2 Ports

Storage Networking Supported

CIFS; FC; iSCSI; NFS v3; NFS v4.0; NFS v4.1; NFS v4.2; NFSv3/RDMA; NFSv4/RDMA; NVMe/FC ; NVMe/TCP; S3; S3 with NAS; SMB 2.0; SMB 2.1; SMB 2.x; SMB 3.0; SMB 3.1; SMB 3.1.1;

System Environment Specifications

- Typical Power: 8304 BTU/hr
- Worst-case Power: 10948 BTU/hr
- Weight: 118.0 lb 53.5 kg
- Height: 4U
- Width: 19” IEC rack-compliant (17.6” 44.7 cm)
- Depth: 34.5” (36.6” with cable management bracket)
- Operating Temp/Altitude/Humidity: 10°C to 35°C 50°F to 95°F) at ⇐ 3048m ⇐ 10000 ft) elevation;8% to 80% relative humidity, noncondensing
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- Certifications Safety/EMC/EMI: EAC, UKRSEPRO
- Certifications Safety/EMC/EMI/RoHS: BSMI, CE DoC, UKCA DoC
- Standards EMC/EMI: BS-EN-55032, BS-EN55035, CISPR 32, EN55022, EN55024, EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A, ICES-003, KS C 9832, KS C 9835
- Standards Safety: ANSI/UL60950-1, ANSI/UL62368-1, BS-EN62368-1, CAN/CSA C22.2 No. 60950-1, CAN/CSA C22.2 No. 62368-1, CNS 15598-1, EN60825-1, EN62368-1, IEC 62368-1, IEC60950-1, IS 13252(part 1)

High Availability

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