InfiniBox™ SSA II

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InfiniBox SSA II Specifications

Models: F4308T | F4316T

InfiniBox SSA II sets the industry standard for all-flash arrays with its critical combination of price, performance, capacity, and features. Infinidat's software-defined operating system, InfuzeOS™, drives the platform's powerful 3-way active controller architecture and delivers outstanding performance for both block and file services, availability, resilience, and usability. InfiniBox SSA II is a powerful, green platform that enables greater workload consolidation in the same floor space resulting in significant reductions in OpEx. It is available in a flexible scale-up architecture with 60%, 80%, and 100% populated models.

The Best Performance at Scale
Neural Cache, Infinidat's patented, machine learning algorithms provide unrivaled performance at scale. InfiniBox SSA II delivers latency performance as low as 35 microseconds[1]. Performance is even guaranteed![2]

Significant Economic Benefits
According to IDC research commissioned by Infinidat, InfiniBox customers saw overall OpEx expenses cut by 48% with payback in 11 months.[3]

InfiniSafe: Comprehensive Cyber Resilience
Powerful, zero-impact, immutable snapshots are the foundation for InfiniSafe®, Infinidat's cyber storage stack, which is included. InfiniSafe cyber storage guarantees provide added assurance.[4] Add on InfiniSafe Cyber Detection to enhance creation of cyber storage resilient environments with deep content level analysis of data sets to identify cyber threats via machine learning.

World-class Data Services
Patented InfiniRAID® technology ensures data integrity and availability. Data-at-rest encryption ensures your data is safe, down to the individual device level. Best-in-class replication provides multi-site asynchronous replication with an RPO as little as 4 seconds and synchronous capabilities.

100% Availability Guaranteed
Infinidat's SLA-based guarantees provide for 100% availability[5] which means zero downtime.

Simplified User Experience
InfiniOps™ makes InfiniBox SSA II easy to use. Machine learning and cloud-based AI enable autonomous and automated capabilities that take the guesswork and cost out of many complicated storage functions.This reduces management costs and can save up to 51%[3] in management time.

InfiniBox™ SSA

InfiniBox SSA II Spec Sheet

InfiniBox SSA II F4308T & F4316T System Specifications

		F4308T	F4316T
Useable Capacity (Range)	@60%	766TB	1,531TB
	@80%	1,039TB	2,078TB
	@100%	1,312TB	2,624TB
Effective Capacity[6] (Range)	@60%	1,915TB	3,827TB
	@80%	2,597TB	5,195TB
	@100%	3,280TB	6,635TB

InfiniBox SSA II is available in a flexible scale-up architecture with 60%, 80%, and 100% populated models.

Performance Features

Memory	Up to 3TB
Latency[1]	As low as 35μs
IOPS	2.0M IOPS[7]
Throughput	Up to 38GB/s

Connectivity and Integration

FC Ports	24 x 32Gbps
Ethernet Ports	12x 25GbE/10GbE + 6x 10GbE OR 18x 25GbE in All Ethernet Option
Protocal Support	SMB/NFS, NVMe, TCP, FC
Ecosystem Integration	VMware, Kubernetes, Microsoft, OpenStack, CommVault, Rubrik, Veeam, Veritas and more
Host-side Tools	Infinidat Host PowerTools™ and Host PowerTools™ for VMware simplifies the management of servers and storage, enabling different IT teams to easily work together and provide greater data access and availability

Availability and Protection

Fully Redundant Hardware	N+2 Redundant System Components, Resilient Against Multiple Concurrent Failures
	Triple-Active Redundant Controller Nodes
Data Protection	FIPS 140-2 Validated
	In-Line and At-Rest Data Integrity Verification, Data-at-Rest Encryption, Fastest Media Rebuild in the Industry
	Petabyte-Scale Snapshots with Zero Performance Impact; Readable/Writable and Immutable Snapshots
	Active/Active Replication, Synchronous Replication, and Asynchronous Replication

Scalability

Max. Volume/File System Size	Unlimited
Max. Files per Directory/File System	>17B
Max. Number of Volumes + Snapshots	100,000
Max. Number of File Systems	4,000
Max Files Size	1PB

Support and Service

	Three Years, 24x7 Support with Assigned Technical Advisor at No Additional Cost

Pricing and Licensing

System Feature Licensing	All features are included at no additional cost

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InfiniBox SSA II Physical and Environmental Characteristics

Power Consumption (typical)	@60%	2.8kW
*based on historical telemetry data	@80%	3.1kW
	@100%	3.5kW
PDU Power (Maximum)	@60%	4.5kW
	@80%	5.1kW
	@100%	6.5kW

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Form Factor		Standard 48.26cm (19 in) 42U rack
Maximum Weight		Up to 710kg (1,565 lbs.)
Operating Temperature		10°C–30°C (50°F–85°F)
Altitude (max)		3,000m (9,800 ft)
Humidity		25%-80% non-condensing
Service Clearance: Front/Rear		120cm/45cm (47.24 in/17.8 in)
Input Voltage and Current	North America:	Dual-phase: 208VAC, 2W+PE, NEMA L6-30P, 24A, 50/60Hz
		Three-phase: 120Y/208VAC, 3W+N+PE, NEMA L21-30P, 24A, 50/60Hz
		Three-phase: 120Y/208VAC, 3W+PE, NEMA L15-30P, 24A, 50/60Hz
		Three-phase: 208VAC, 3W+PE, 60Hz, IEC-60309, 48A (60A derated), 50/60Hz
	International:	Single-phase: 220-240VAC, W+N+PE, IEC-309, 32A, 50/60Hz
		Three-phase: 220/380-240/415VAC, 3W+N+PE, IEC-309, 16A, 50/60Hz
Input Power Frequency		50/60HZ
Max Cooling Requirements	@60%	15,354 BTU/Hour
	@80%	17,401 BTU/Hour
	@100%	22,178 BTU/Hour
Certification Standards		EN 55032 - (CISPAR 32), EN 55035, (CISPAR 35), EN 61000-3-2, EN 61000-3-3
		FCC Part 15, ICES-003
		Safety: IEC/EN/UL 62368-1
		EU CE Mark
		ROHS: EN 50581 – 2012
		REACH: Regulation No. 1907/2006 (Article 33)

[1] Internal Latency as low as 35 microseconds based on customer production telemetry data, read I/O hits (DRAM cache) actual results may vary. March 2022.
[2] Performance guarantees require a detailed performance analysis of workloads for a guaranteed SLA - Terms and conditions apply
[3] IDC White Paper, Sponsored by Infinidat, The Business Value of Infinidat Storage, Doc. #US49976922, February 2023
[4] We guarantee the recoverability of an immutable snapshot and complete the snapshot recovery within 1 minute - Terms and conditions apply
[5] 100% Availability is based on our 100% data availability guarantee - Terms and Conditions apply
[6] Effective Capacity includes the benefits of thin provisioning, inline compression, and space-efficient snapshots
[7] May vary based on the system configuration