

InfiniBox™ SSA G4

Models: F1404T | F1408T | F4408T | F4416T

The InfiniBox SSA G4 enterprise-class, all-flash primary storage platform, sets the industry standard when it comes to the critical combination of price, performance, capacity, features, and business outcomes. Infinidat's software-defined operating system, InfuzeOS™, drives the platform's powerful 3-way active controller architecture and neural cache to deliver exceptional diverse workload performance, availability, and cyber resilience all backed by our guarantees. InfiniBox SSA is a powerful and greener platform that gives enterprises the ability to consolidate more workloads in the same floor space resulting in significant reductions in OpEx and carbon footprint.

What's New in InfiniBox SSA G4

InfiniBox SSA G4 creates a powerful, new foundation leveraging the AMD EPYC™ CPU with PCI Express 5.0 to support faster devices with massive bandwidth and blistering I/O speeds. The result is up to a 2X increase in overall performance!¹

Additionally, InfiniBox SSA G4 further enhances your ability to consolidate workloads and create more efficient IT operations, thereby lowering OpEx with increased savings on power, cooling, and data center floor space. With 31% more cores per controller node, power can be reduced by 20% per core, on average.

Introducing the InfiniVerse® Platform

InfiniVerse is an enterprise, platform-native storage architecture that delivers comprehensive data services. InfiniVerse is being extended to provide users with an easy, cloud-like experience across their Infinidat estates, whether on-prem or in the cloud. InfiniVerse helps enterprises focus on meaningful business outcomes and simplifying technology operations to minimize the hybrid complexity of physically distributed storage infrastructure across multiple domains.



Benefits

SLA-based Guarantees

The top business outcomes that customers strive for in their IT operations are performance, availability, and cyber resilience. Our SLA-based guarantees ensure they achieve all three:



100% Availability Guarantee²

Our N+2 controller design and InfiniRAID® data protection provide constant monitoring, self-healing, and graceful recoveries from hardware failures on all levels. This design produces a high degree of resilience, enabling Infinidat to guarantee 100% system availability—no downtime!



Performance Guarantee³

Infinidat will tailor a set of iron-clad performance service level guarantees based on an understanding of your business use cases and workloads.



InfiniSafe Cyber Storage Guarantees⁴

InfiniSafe Cyber Storage Guarantees build on our core InfiniSafe technology and guarantee both recoverability of immutable snapshots and recovery in less than a minute, regardless of data set size.

Best Financial Value and Payback

Infinidat offers the storage industry's best financial value. Companies who make the switch to Infinidat save millions in OpEx and CapEx, with ROI in less than a year. The InfiniBox SSA G4 provides a compelling, all-flash platform for consolidation, making a very strong economic argument. When an enterprise consolidates 5, 10, or 20 arrays, it dramatically reduces sprawl and all the associated management and control concerns. There are also the significant OpEx benefits of reduced power, cooling, and floor space. Once you've consolidated to an InfiniBox SSA G4, you only have one array to secure and preserve data from, to decommission, and to recycle at the end of its lifecycle, further compounding your time and cost savings.

About InfuzeOS

Infinidat's InfuzeOS is the only single, software-defined storage (SDS) architecture that spans all platforms. InfuzeOS drives the most powerful capabilities, performance, availability, cyber storage resilience, economics, and business outcomes of our industry-acclaimed storage platforms.

InfuzeOS Cloud Edition is a multi-cloud hybrid storage solution that extends the InfiniBox platform experience to the public cloud. This cloud-native deployment is functionally equivalent to the on-prem InfuzeOS and is managed by the same familiar and easy-to-use interfaces.

The Business Value of InfiniBox Hybrid Storage⁵

48%

Reduced overall OpEx

162%

5-year ROI

\$1.29M

Annual average benefits per system

11 mo

Payback in 11 months

Sustainable Storage

The enterprise platform-native storage architecture of Infinidat arrays is designed to deliver larger quantities of data more efficiently, freeing up rack and floor space while reducing energy consumption (kWh). Customers benefit from using fewer storage arrays while increasing their storage capacity, leading to a lower cost of power and cooling per TB of storage and a reduction in carbon footprint.

Many customers consolidate other vendors' arrays into Infinidat's power-efficient arrays to achieve substantial CapEx and OpEx savings and further their Green IT initiatives.

Platform Highlights

InfiniSafe Cyber Storage Resilience

Award-winning, secure-by-design, InfiniSafe enables comprehensive cyber resilience capabilities for all Infinidat solutions. InfiniSafe core technology leverages immutable snapshots, creates a local or remote logical air gap, easily establishes a fenced forensic environment, and provides near-instantaneous recovery from cyberattacks.

Our InfiniSafe Cyber Detection option further extends cyber prevention by validating the integrity of your immutable snapshots using powerful, ML-based scanning engines. Comprehensive AI-driven machine learning detects ransomware and malware attacks with up to 99.99% accuracy so you can quickly and easily identify the last known good copy of your data for rapid, intelligent recovery. Our InfiniSafe Cyber Storage Guarantees provide added assurance.

Unified Storage Platform

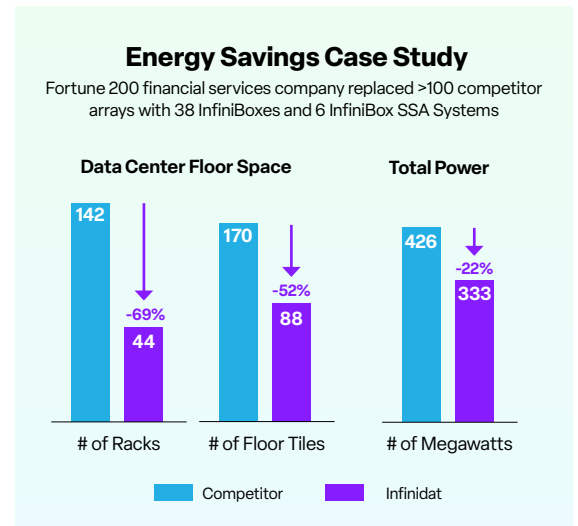
InfiniBox SSA G4 is a unified data platform providing block connectivity over numerous protocols and tightly integrated high-speed file protocols such as NFS and SMB. This enables you to choose your workload environment without concern about file vs. block performance.

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 of as little as 4 seconds and synchronous and fully active-active capabilities that give the best options to ensure business continuity and seamless migrations of your Infinidat storage solutions.

Automated Intelligence Layer

InfiniOps™ technologies make InfiniBox SSA G4 incredibly easy to use and manage. Machine learning and cloud-based AI enhance the InfiniBox SSA G4 with autonomous and automated capabilities that take the guesswork and cost out of many complicated storage functions. The result is reduced management costs and savings of up to 51% in management time, removing a significant portion of overhead and time to value, for other critical IT tasks, and helping to reduce the IT skills gap challenge.⁵



White-glove Service and Support

Outstanding “white-glove” service and support are included. This service starts during the discovery process to fully understand your business, workloads, and use cases. We then architect the right solution for those needs and create an SLA-based guarantee.

Additionally, each Infinidat customer has a dedicated Technical Advisor, at no additional cost, who stays in touch every step of the way, providing proactive tips, support, and best practices, to ensure you meet your business objectives.

Our support teams are available 24x7 and monitor for any issues that may arise. Frequently we are proactive in response to issues you may not even be aware of yet. Our support starts at L3, eliminating any long escalation paths, to resolve issues quickly.

Industry-recognized Customer Experience

Infinidat is a six-time Gartner Peer Insights Customer’s Choice. InfiniBox SSA has a rating of 4.8 stars out of 5 rating for primary storage. 98% of customers indicate their willingness to recommend Infinidat to their peers.⁶

InfiniVerse Consumption Flexibility

Infinidat simplifies the procurement and consumption process with options that include traditional CapEx purchases and consumption-based STaaS models to suit various business outcomes.



FLX

Our consumption-based, pay-as-you-grow STaaS solution is for customers who want cloud-like operations and economics for their on-prem or hybrid, multi-domain estate. Infinidat will ensure that your storage consumption meets your SLAs or will provide the necessary upgrades to support your required business outcomes.



Capacity on Demand (COD)

Customers can own and control the hardware with the flexibility to pay for the baseline capacity they need today and purchase additional capacity over time.



CapEx

Traditional ownership where storage hardware is purchased for on-premises deployment.

From Our Customers

“Support response is quick and knowledgeable. Product performance is exceptional and maintenance and day-to-day operation is easy.”

**Infrastructure and
Cloud Architect**
Insurance Industry

“Infinidat’s management interface has to be the easiest and most user-friendly... Performance is also outstanding.”

Systems Engineer
Healthcare & Biotech

“Infinidat has been a rock-solid platform. The stability and performance are second to none.”

Systems Engineer
Financial Services

“Infinidat has surpassed our expectations for performance, reliability, operational efficiencies, and personal customer service.”

**Principal Network
Systems Architect**
Manufacturing



InfiniVerse Mobius

With InfiniBox SSA G4 traditional CapEx storage ownership is modernized with a subscription for hardware and software upgrades to keep your investment modern and cutting-edge. We ensure that your InfiniBox SSA G4 will always have the best available controller and performance over its lifetime. Modernize your storage infrastructure on an ongoing basis without disruption.

Regardless of which procurement method, customers get the full performance capabilities of the entire platform, even if using only part of the overall capacity. All enterprise features and reliability are included along with white-glove service and support.

Contact your Infinidat representative or channel partner for more information.

InfiniBox™ SSA G4 Specifications

InfiniBox SSA G4 System Specifications

	F1404T	F1408T
Useable Capacity	155TB (149.7TiB)	310TB (281.9TiB)
Effective Capacity ⁷	387TB (374.2TiB)	775TB (704.7TiB)
	F4408T	F4416T
Useable Capacity	@60% 766TB (696.6TiB)	1,531TB (1,393TiB)
	@80% 1,039TB (944.9TiB)	2,078TB (1,889.9TiB)
	@100% 1,312TB (1,193TiB)	2,624TB (2,386.5TiB)
Effective Capacity ⁷	@60% 1,915TB (1,741TiB)	3,827TB (3,482TiB)
	@80% 2,597TB (2,362TiB)	5,195TB (4,724TiB)
	@100% 3,280TB (2,982TiB)	6,635TB (5,966TiB)

The InfiniBox SSA F4400 series is available in a flexible scale-up architecture with 60%, 80%, and 100% populated models.

Performance Features

Memory	Up to 3.456TB	
Latency	As low as 35µs	
IOPS ⁸	F1400T Up to 1.8M IOPS	F4000T Up to 2.24M IOPS
Throughput ⁸	F1400T Up to 30GB/s	F4000T Up to 63GB/s

Connectivity and Integration

FC Ports	24 x 32Gbps (All F1400 models provide 12 x 32Gbps)
Ethernet Ports	18 x 10/25GbE
Protocol Support	SMB/NFS, NVMe-oF/TCP, iSCSI, 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
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Pricing and Licensing

System Feature Licensing	All features are included at no additional cost except the optional InfiniSafe Cyber Detection
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InfiniBox™ SSA G4 Specifications

InfiniBox SSA G4 System Specifications

	F1404T	F1408T
Power Consumption (typical)*	2.4kW	2.4kW
	F4408T	F4416T
@60%	2.8kW	2.8kW
@80%	3.1kW	3.1kW
@100%	3.5kW	3.5kW
	F1404T	F1408T
PDU Power (maximum)	3.3kW	3.3kW
	F4408T	F4416T
@60%	4.5kW	4.5kW
@80%	5.1kW	5.1kW
@100%	6.5kW	6.5kW
	F1404T	F1408T
Form Factor	14U Standard 48.26cm (19 in) 42U rack	
	F4408T	F4416T
	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	

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InfiniBox™ SSA G4 Specifications

InfiniBox SSA G4 System Specifications

	F1404T	F1408T
Max Cooling Requirements	11,260 BTU/Hour	11,260 BTU/Hour
	F4408T	F4416T
@60%	15,354 BTU/Hour	15,354 BTU/Hour
@80%	17,401 BTU/Hour	17,401 BTU/Hour
@100%	22,178 BTU/Hour	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)
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¹ May vary based on system configuration

² 100% Availability is based on our 100% data availability guarantee - Terms and Conditions apply

³ Performance guarantees require a detailed performance analysis of workloads for a guaranteed SLA - Terms and conditions apply

⁴ We guarantee the recoverability of an immutable snapshot and complete the snapshot recovery within 1 minute - Terms and conditions apply

⁵ IDC White Paper, Sponsored by Infinidat, The Business Value of Infinidat Storage, Doc. #US49976922, February 2023

⁶ As of 22 Apr. 2024, Infinidat InfiniBox has an Overall Rating of 4.8 out of 5 in the Primary Storage with Platforms Services market, based on 13 reviews on Gartner Peer Insights™

⁷ Effective Capacity includes the benefits of thin provisioning, inline compression, and space-efficient snapshots

⁸ May vary based on system configuration

⁹ Based on historical telemetry data