

# InfiniBox® G4

**Models: F6400 | F4400**

The InfiniBox G4 enterprise-class, primary storage platform sets the industry standard when it comes to the critical combination of price, performance, capacity, features, and business outcomes. Infinidat Federal’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. InfiniBox 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 G4**

InfiniBox 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!

Additionally, InfiniBox 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 Federal 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 Guarantee<sup>2</sup>

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 us to guarantee 100% system availability—no downtime!



#### Performance Guarantee<sup>3</sup>

Infinidat Federal 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 Guarantees<sup>4</sup>

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

We offer the storage industry's best financial value. InfiniBox G4 helps enterprises meet business operational challenges by providing high performance infused with high availability, cyber storage resilience, and innovative management features, all within a financial model that drives an exceedingly fast ROI.

According to research by IDC, organizations that make the switch to InfiniBox can save millions in OpEx and CapEx, with ROI in less than a year. This survey of InfiniBox users showed significant IT infrastructure cost reductions, positive impacts on IT staff productivity, and business productivity gains!<sup>5</sup>

For more information visit our [Financial Benefits](#) page.

## About InfuzeOS

Infinidat Federal'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.

**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 InfiniBox 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 our 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 Federal 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 99.5% 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.

### All-Flash Workload Capable SSA Express

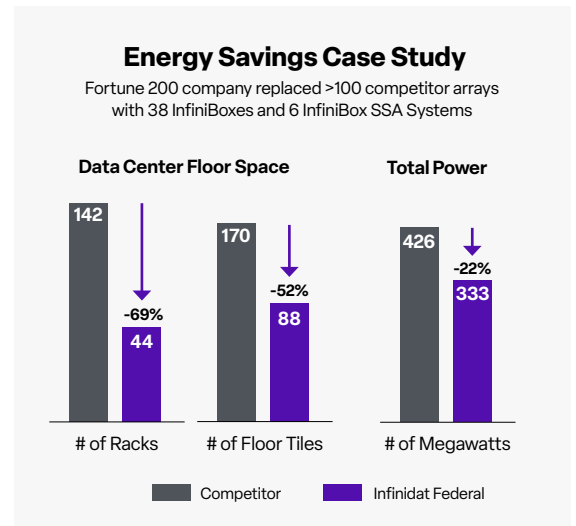
SSA Express brings all-flash performance to your InfiniBox G4 hybrid storage system. InfiniBox provides outstanding performance, but when you need a little bit more, SSA Express adds all-flash workload performance. Performance-sensitive applications can have rapid, low-latency responses by adding datasets to the SSA Express volumes, creating an all-flash array within your InfiniBox. SSA Express brings extra value to your InfiniBox by eliminating small array sprawl and includes all enterprise data services and availability for some of your small workloads.

### Unified Storage Platform

InfiniBox 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 storage solutions.



## Automated Intelligence Layer

InfiniOps™ technologies make InfiniBox G4 incredibly easy to use and manage. Machine learning and cloud-based AI enhance the InfiniBox 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.<sup>5</sup>

## 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 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

We are a six-time Gartner Peer Insights Customer’s Choice with 4.9 stars out of 5 rating for primary storage. 98% of customers indicate their willingness to recommend InfiniBox to their peers.<sup>6</sup>

## InfiniVerse Consumption Flexibility

We simplify 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 those who want cloud-like operations and economics for their on-premises or hybrid, multi-domain estate. We will ensure that your storage consumption meets your SLAs or will provide the necessary upgrades to support your required business outcomes.

## From Our Customers

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“If you aren’t running Infinidat in your data center, you are wasting money on storage! Overall I cannot say enough good about the InfiniBox product line. We have been driving towards “all green” storage from the first purchase. It has exceeded our expectations across the board in multiple ways.”

**VP of Technology**

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**A six-time Gartner Peer Insights Customers’ Choice for Primary Storage<sup>7</sup>**

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“Our InfiniBox systems are very reliable – no unplanned downtime ever.”

**VP of Cloud Operations**

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“InfiniBox is extremely fast, efficient, and easy to use. I would recommend it over any other storage array.”

**Supervisor, IT Operations**

# InfiniBox® G4



## **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 storage ownership where the storage hardware is purchased for on-premises deployment.



## **InfiniVerse Mobius**

With InfiniBox 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 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 Federal representative or channel partner for more information.**

# InfiniBox® G4 Specifications

## InfiniBox System Specifications

### Capacity

|                                 | F6400                                    | F4400                                |
|---------------------------------|--|--------------------------------------|
| Useable Capacity                | 1.38PB (1.26PiB) to 6.915PB (6.289PiB)   | 683TB (621TiB) to 3.417PB (3.107PiB) |
| Effective Capacity <sup>8</sup> | 3.45PB (3.15PiB) to 17.287PB (15.722PiB) | 1.7PB (1.52PiB) to 7.9PB (7.76PiB)   |

### Performance Features

|                         |  |                  |
|-------------------------|--|------------------|
| Memory                  | Up to 3.456TB  | Up to 3.456TB    |
| Flash Cache             | Up to 368TB  | Up to 368TB      |
| IOPS <sup>1</sup>       | Up to 2.24M IOPS   | Up to 2.24M IOPS |
| Throughput <sup>1</sup> | Up to 51GB/s   | Up to 51GB/s     |
| SSA Express             | Up to 60TB with 1.92 drives and up to 320TB with 7.68TB drives |                  |

### Connectivity and Integration

|                       |  |
|-----------------------|--|
| FC Ports              | 24 x 16Gbps, 32Gbps Optional   |
| Ethernet Ports        | 18x 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       | 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<br>Triple-Active Redundant Nodes  |
| Data Protection          | FIPS 140-2 Validated<br>In-Line and At-Rest Data Integrity Verification, Data-at-Rest Encryption, Fastest Media Rebuild in the Industry<br>Petabyte-Scale Snapshots with Zero Performance Impact; Readable/Writable and Immutable Snapshots<br>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. File 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 except the optional InfiniSafe Cyber Detection |
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# InfiniBox® G4 Specifications

## InfiniBox Physical and Environmental Characteristics

|  | F6400  | F4400   |
|--|--|---|
| Power Consumption (typical) <sup>9</sup> | 7kW  | 4.5kW   |
| PDU Power (maximum)                      | 9.8kW  | 6kW   |
| Form Factor                              | Standard 48.26 cm (19 in)<br>42U Rack  | 26U in a Standard 48.26 cm (19 in)<br>42U Rack  |
| Maximum Weight                           | 1,176 kg (2,593 lb)  | 795 kg (1,753 lb)   |
| Operating Temperature                    | 10°C–30°C (50°F–85°F)  |   |
| Altitude (max)                           | 3,000 m (9,800 ft)   |   |
| Humidity                                 | 25%-80% non-condensing   |   |
| Service Clearance: Front/Rear            | 120 cm/45 cm (47.24 in/17.8 in)  |   |
| Input Voltage and Current                | North America:   | Dual-phase: 208VAC, 2W+PE, NEMA L6-30P, 24A, 50/60Hz<br>Three-phase: 120Y/208VAC, 3W+N+PE, NEMA L21-30P, 24A, 50/60Hz<br>Three-phase: 120Y/208 VAC, 3W+PE, NEMA L15-30P, 24A, 50/60Hz<br>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<br>Three-phase: 220/380-240/415VAC, 3W+N+PE, IEC-309, 16A, 50/60Hz  |
| Input Power Frequency                    | 50/60 HZ   |   |
| Max Cooling Requirements                 | 33,348 BTU/Hour  | 20,472 BTU/Hour   |
| Certification Standards                  | EN 55032 - (CISPAR 32), EN 55035, (CISPAR 35), EN 61000-3-2, EN 61000-3-3<br>FCC Part 15, ICES-003<br>Safety: IEC/EN/UL 62368-1<br>EU CE Mark<br>ROHS: EN 50581 – 2012<br>REACH: Regulation No. 1907/2006 (Article 33) |   |

<sup>1</sup> May vary based on system configuration

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

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

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

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

<sup>6</sup> As of 10 Apr. 2024, Infinidat InfiniBox has an Overall Rating of 4.9 out of 5 in the Primary Storage with Platforms Services market, based on 458 reviews on Gartner Peer Insights™

<sup>7</sup> Gartner, Gartner Peer Insights "Voice of the Customer": Primary Storage Arrays, Peer Contributors, February 23, 2024

<sup>8</sup> Effective Capacity includes the benefits of thin provisioning, inline compression, and space-efficient snapshots

<sup>9</sup> Based on historical telemetry data