

IBM FlashSystem 9100

IBM FlashSystem 9100 at a glance

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| Models | IBM FlashSystem 9110, model AF7/IBM FlashSystem 9150, model AF8 |
| Flash type | IBM-enhanced 3D TLC |
| Supported drives | 2.5-inch NVMe FCMs: 4.8 TB, 9.6 TB and 19.2 TB compressing FCMs 2.5-inch NVMe flash drives: 1.92 TB, 3.84 TB, 7.68 TB and 15.36 TB |
| Management software | IBM Spectrum Virtualize software |
| Advanced features | Deduplication and compression FlashCopy Remote mirroring External virtualization IBM Easy Tier Data migration |
| Encryption | Data-at-rest AES-XTS 256 |
| SAS Expansion enclosures | Model AFF 2U 24 drive Model A9F 5U 92 drive 2.5-inch flash drives supported: 1.92 TB, 3.2 TB, 3.84 TB, 7.68 TB, 15.36 TB and 30.72 TB |
| Dimensions | Controller enclosure: Width: 48.3 cm (19.0 in) Depth: 85.0 cm (33.5 in) Height: 8.8 cm (3.5 in) |
| Weight | 46.6 kg (102.5 lb) fully loaded |
| Capacity | |
| System size | Single System - 2U enclosure |
| Maximum NVMe flash capacity | 461 TB raw 379 TB usable, DRAID6 758 TB effective (2:1 reduction) |
| Maximum external storage capacity | External virtualization: Up to 32 PB usable capacity |
| IOPS (4K cache hit) | 3,800,000 |
| IOPS (4K read miss) with hardware compression (IBM FlashSystem 9150) | 1,200,000 |
| Bandwidth (256K) | 34 GB/s |
| Host interface | Up to: 24 ports 16 Gb or 32 Gb Fibre Channel (FC, FC-NVMe) 8 ports 10 GbE iSCSI 12 ports 25 GbE iWARP or RoCE |
| Controller CPU | Model AF7: Four 8-core Model AF8: Four 14-core |

IBM FlashSystem 9100 clustering at a glance

| | Flash System 9152 | | |
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| System size | Clustered 2 x AF8 (4U) | Clustered 3 x AF8 (6U) | Clustered 4 x AF8 (8U) |
| Maximum NVMe flash capacity | 922 TB raw 758 TB usable, DRAID6 1.5 PB effective (2:1 reduction) | 1.3 PB raw 1.1 PB usable, DRAID6 2.3 PB effective (2:1 reduction) | 1.8 PB raw 1.5 PB usable, DRAID6 3.0 PB effective (2:1 reduction) |
| Maximum external storage capacity | External virtualization: Up to 32 PB usable capacity | External virtualization: Up to 32 PB usable capacity | External virtualization: Up to 32 PB usable capacity |
| IOPS (4K cache hit) | 7,600,000 | 11,400,000 | 15,000,000 |
| IOPS (4K read miss) with hardware compression (IBM FlashSystem 9150) | 2,400,000 | 3,600,000 | 4,800,000 |
| Bandwidth (256K) | 68 GB/s | 102 GB/s | 136 GB/s |
| Host interface | Up to: 48 ports 16 Gb or 32 Gb Fibre Channel (FC, FC-NVMe) 16 ports 10 GbE iSCSI 24 ports 25 GbE iWARP or RoCE | Up to: 72 ports 16 Gb or 32 Gb Fibre Channel (FC, FC-NVMe) 24 ports 10 GbE iSCSI 36 ports 25 GbE iWARP or RoCE | Up to: 96 ports 16 Gb or 32 Gb Fibre Channel (FC-NVMe) 32 ports 10 GbE iSCSI 48 ports 25 GbE iWARP or RoCE |
| Controller CPU | Model AF8: Eight 14-core | Model AF8: Twelve 14-core | Model AF8: Sixteen 14-core |

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