

IBM FlashSystem 900

IBM FlashSystem 900 at a glance

Model	9840-AE3, 9843-AE3
Flash type	IBM-enhanced 3D TLC
Minimum latency	
Write	95 μ s
Read	155 μ s
Maximum IOPS 4 KB	
Read (100%, random)	1,100,000
Read/write (70%/30%, random)	900,000
Write (100%, random)	600,000
Maximum bandwidth 64 KB	
Read (100%, sequential)	10 GB/s
Write (100%, sequential)	4.5 GB/s
RAS features	<ul style="list-style-type: none"> • Two-dimensional flash RAID • Module-level Variable Stripe RAID • System-level RAID 5 across modules • Hot-swappable MicroLatency flash modules • Tool-less concurrent module installation/replacement • Concurrent code load • Remote access • Enhanced Call Home • GUI performance and event mapping • Redundant and hot-swappable controllers, interface cards, power supplies, batteries and fans 99.999% availability*
Encryption	Local key and IBM Security Key Lifecycle Manager (AES-XTS 256)
Connectivity options	16 x 16 Gb Fibre Channel (NVMe-of) 8 x 40 Gb quad data rate (QDR) InfiniBand (SRP, NVMe-IB protocols)
Power	625 Watts (nominal) 1,300 Watts (max)
Dimensions (H x W x D)	86.2 mm x 445.00 mm x 768.12 mm (3.39 in. x 17.50 in. x 30.24 in.)
Weight	34 kg (75 lb) fully loaded

IBM FlashSystem 900 - Small (3.6 TB) - FC AF3J

Modules quantity - Capacity	Usable TB	Usable TiB	Average effective (2:1) TB	Average effective (2:1) TiB	Maximum effective TB	Maximum effective TiB
6	14.4	13	28.8	26.1	43.9	39.9
8	21.6	19.6	43.3	39.3	65.9	59.9

10	28.8	26.1	57.7	52.4	87.9	79.9
12	36.1	32.8	72.2	65.6	109.9	99.9

IBM FlashSystem 900 - Medium (8.5 TB) - FC AF3K

Modules quantity - Capacity	Usable TB	Usable TiB	Average effective (2:1) TB	Average effective (2:1) TiB	Maximum effective TB	Maximum effective TiB
8	51.3	46.6	102.6	93.3	131.9	119.9
10	68.4	62.2	136.8	124.4	175.9	159.9
12	85.5	77.7	171	155.5	219.9	199.9

IBM FlashSystem 900 - Large (18 TB) - FC AF3L

Modules quantity - Capacity	Usable TB	Usable TiB	Average effective (2:1) TB	Average effective (2:1) TiB	Maximum effective TB	Maximum effective TiB
8	108	98.2	N/A	N/A	131.9	119.9
10	144	130.9	N/A	N/A	175.9	159.9
12	180	163.7	N/A	N/A	219.9	199.9

IBM FlashSystem 900 - XLarge (18 TB) - FC AF3M

Modules quantity - Capacity	Usable TB	Usable TiB	Average effective (2:1) TB	Average effective (2:1) TiB	Maximum effective TB	Maximum effective TiB
8	108	98.2	216	196.4	263.8	239.9
10	144	130.9	288	261.9	351.8	319.9
12	180	163.7	360	327.4	439.8	399.9



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