

IBM FlashSystem A9000R

IBM FlashSystem A9000R Spec Table

IBM FlashSystem A9000R at a glance												
Model	9835-425 (1-year warranty), 9837-425 (3-year enterprise-class warranty), 9837-U25 (1-year warranty)											
Controllers	Up to 8 active grid controllers, each containing: <ul style="list-style-type: none"> • Two Intel Xeon E5 v4 12-core 2.2 GHz processors • 384 GB DDR4 memory • Redundant battery backup units and power supply units 											
Software	IBM FlashSystem A9000 and IBM FlashSystem A9000R software v12											
Flash type	IBM-enhanced 3D TLC											
	720 TB configuration				1,700 TB configuration				3,600 TB configuration			
Effective capacity* (TB)	180	360	540	720	425	850	1,275	1,700	900	1,800	2,700	3,600
Maximum capacity† (TB)	1,200	2,400	3,600	4,800	1,200	2,400	3,600	4,800	1,200	2,400	3,600	4,800
Physical capacity‡ (TB)	36	72	108	144	85	170	255	340	180	360	540	720
Raw capacity (TB)	55.3	110.6	166.1	221.2	129	258	387	516	258	516	774	1,032
Grid controllers	3	4	6	8	3	4	6	8	3	4	6	8
Flash enclosures	1	2	3	4	1	2	3	4	1	2	3	4
IBM MicroLatency modules per flash enclosure	12 x 3.6 TB				12 x 8.5 TB				12 x 18 TB			
Performance: Scaled-out configuration 8 grid elements												
IOPS	2,400,000											
Maximum bandwidth	26 GB/s											
Minimum latency	250 µs											
Data reduction and efficiency	<ul style="list-style-type: none"> • Pattern removal • Global, inline deduplication • Inline compression • Space-efficient snapshots • Thin provisioning 											
Encryption	Hardware-based AES-XTS 256-bit with centralized key management											
Host connectivity options	Per grid controller: 4 x 16 Gb Fibre Channel + 2 x 10 Gb iSCSI, or 4 x 10 Gb iSCSI											

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Backplane interconnect	InfiniBand
Power	Entry configuration: 1.914 KW (typical); 2.806 KW (max) Scaled out configuration: 5.13 KW (typical); 8.57 KW (max)
Rack dimensions (H x W x D)	201.5 cm (42U) x 64.4 cm x 129.7 cm (79.3 in x 25.4 in x 51.1 in)
Weight	Entry configuration: 550 kg (1,212 lb) Scaled out configuration: 774 kg (1,706 lb)
Client operating system support	For a current list of platforms supported, please visit the IBM System Storage Interoperation Center (SSIC) .

* Typical effective capacity is the available capacity after system overhead (including flash media over-provisioning and RAID protection) and after the data reduction benefits of pattern removal, deduplication and compression. This assumes data reduction of 5 to 1.

†Maximum capacity refers to the effective capacity provisioning limit.

‡Physical capacity is the available capacity after system overhead, including flash media over-provisioning and RAID protection.



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