

IBM DS8882F

The power of an enterprise-class solution delivered in a flexible optimized package

Highlights

- Enterprise storage capabilities delivered as a rack-mounted solution
 - Can be integrated into IBM z14 Model ZR1 or IBM LinuxONE Rockhopper II
 - Superior performance and availability for mission-critical applications
 - Secure and transparent data transfer to multicloud environments
 - Advanced disaster recovery with unique 2, 3, and 4 site replication
 - Intelligent data placement across performance and high-capacity flash tiers
 - Advanced cyber threat protection with IBM Safeguarded Copy
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The nature of core business is rapidly changing to meet customer expectations, and organizations need to transform their IT operations looking to deliver sustained excellent performance for the ever-changing demands of the market while keeping costs down.

In the era of digital business, the mainframe remains for many the most stable, secure and mature environment to support IT initiatives. For instance, 87 percent of all credit card transactions and nearly \$8 trillion in payments a year are processed on mainframes. Furthermore, this platform manages 29 billion ATM transactions each year, equivalent to nearly \$5 billion per day.¹

In order to tackle the most demanding business challenges, IBM has combined the impeccable reliability of mainframe with the power and flexibility of IBM DS8882F. Together, they provide a trusted foundation to support the digital transformation that your organization requires to achieve a competitive advantage.

Built with the IBM DS8000 enterprise software platform, the new IBM DS8882F all-flash data system delivers powerful enterprise capabilities also offered in the larger DS888xF systems at a lower entry cost. Furthermore, the DS8882F model can be integrated into IBM z14 model ZR1 or IBM LinuxONE Rockhopper II, providing a powerful and affordable end-to-end solution in a single 19-inch, industry-standard rack.



IBM DS8882F Rack Mounted

This unique IBM integration is capable of maximizing the potential of mainframe environments by delivering mission-critical acceleration, uncompromising availability, transformational efficiency and optimized data economics through industry-leading capabilities including:

- High-Performance Flash Enclosure Gen2 with 2x performance improvement² and up to 30.7x more capacity³ per enclosure for workload consolidation under a single all-flash storage solution.
- Transparent Cloud Tiering (TCT) to improve business efficiency and flexibility while reducing capital and operating expenses with server-less direct data transfer from DS8880 to hybrid cloud environments. Beyond automating data migration to and from the cloud, TCT can provide more than 50 percent savings in CPU utilization⁴ when archiving large data sets, enabling clients to reap the savings or apply them towards new workloads such as Cognitive and Machine Learning.
- The best Disaster Recovery solution in the industry with more than “six-nines” availability and unique 2, 3 & 4 site replication with industry-leading RPO and RTO for organizations where continuous operation is crucial.
- Intelligent data placement algorithm that identifies and moves less-frequently accessed data to High-Capacity flash drives. Similarly, frequently accessed data is automatically migrated to High-Performance flash drives to meet performance objectives at a reasonable cost.

The deep integration of IBM DS8882F with IBM Z and IBM LinuxONE, is the result of years of research and collaboration between the IBM storage and mainframe teams, working together to provide a powerful end-to-end solution that delivers unmatched business value.

IBM DS8880 is the leader in the external storage market for mainframe environments.⁵ You can trust IBM DS8882F to maximize your mainframe uptime and efficiency, now and in the future.

¹ IBM Mainframe Ushers in New Era of Data Protection, July 2017,
<https://www.ibm.com/press/us/en/pressrelease/52805.wss>

² Two times more performance per enclosure compared with the previous generation of High-Performance Flash Enclosures

³ 30.7x more capacity per enclosure considering the previous generation of High-Performance Flash Enclosures with 30 x 800 GB Flash Cards (24 TB) and the new generation of flash enclosures with 48 x 15.36 TB Flash Cards (737.28 TB)

⁴ Results are based on preliminary internal IBM data measurements on an EC12 when migrating data sets exceeding 6000 3390 tracks in size. Results will vary by customer based on particular workloads, configurations, software levels and the quantity and size of data sets being migrated.

⁵ IDC WW Quarterly Enterprise Storage Systems Tracker” file published on March 1, 2018

IBM DS8882F Rack Mounted Spec. Table

IBM DS8882F at a glance	
Offering	IBM DS8882F Rack Mounted
Model	983
POWER 8 cores per system (min / max)	12
System cache (min / max)	64 GB / 256 GB
Host ports (min / max)	8 / 16
Flash cards (min / max)	16 / 48
Physical storage capacity (min / max) *	6.4 TB / 737.28 TB
Height	16U expandable to 17U with an additional 1U keyboard/display (28 - 29.75 inch)
Weight	242.7 kg (535 Lb)
Maximum caloric value	8190 BTU/hr
Power consumption	2.4 kW
Host adapter interfaces	8 Gbps or 16 Gbps Fibre Channel / IBM FICON
Drive interface	<ul style="list-style-type: none"> • Two PCIe Gen3 for attachment to the I/O Micro Bay • Eight SAS 6 Gb for attachment to the HPFE Gen2
Flash cards	400 GB, 800 GB, 1.6 TB, 3.2 TB, 3.84 TB, 7.68 TB and 15.36 TB
RAID levels	5, 6 and 10
Dry bulb temperature	16°C - 32°C (60°F - 90°F)
Relative humidity	20% - 80%
Power supply	50 / 60 Hz
Warranty	All models: onsite service, same day, 24x7 <ul style="list-style-type: none"> • 1 year on type 5331 models • 2 years on type 5332 models • 3 years on type 5333 models • 4 years on type 5334 models
Supported systems	For more details on supported servers, visit: ibm.com/systems/support/storage/ssic/interoperability.wss

* Usable capacity depends on factors such as data format, RAID level and spare disks configured. Maximum capacity values are based on fully populated DS8882F systems.

Why IBM?

Whatever the requirements, IBM can help with an end-to-end infrastructure solution that includes data systems, application servers, software, services, support and equipment financing. The IBM DS8882F all-flash data system delivers mission-critical availability, superior flash performance, unparalleled synergy with IBM servers and transformational efficiency for organizations looking to achieve a true competitive advantage.

For more information

To learn more about IBM DS8880F, please contact your IBM representative or IBM Business Partner, or visit:

ibm.com/marketplace/ds8000f

For information on specific function availability, please contact your IBM storage specialist.

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