

# IBM FlashSystem 7200 combines IBM Spectrum Virtualize, IBM FlashCore technology, and IBM Storage Insights to accelerate workloads and deliver cloud-based analytics

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## At a glance

IBM FlashSystem<sup>®</sup> 7200 combines IBM Spectrum<sup>®</sup> Virtualize, IBM FlashCore<sup>®</sup>, IBM<sup>®</sup> Storage Insights, and storage-class memory to deliver a Non-Volatile Memory Express<sup>®</sup> (NVMe) accelerated multicloud-enabled storage system.

IBM FlashCore Modules and use of storage-class memory as a higher level storage tier enables FlashSystem 7200 to deliver the highest available performance with the lowest latencies in its class.

FlashSystem 7200 utility model U7C delivers a variable capacity storage offering with a fixed capacity and a base subscription of 35% of the total capacity, all managed with IBM Storage Insights.

## Overview

FlashSystem 7200 systems are virtualized, NVMe-based, all-flash, software-defined storage solutions designed to unlock the power of your data by combining the latest IBM Spectrum Virtualize, IBM FlashCore Modules, storage-class memory, and IBM Storage Insights technologies.

The FlashSystem 7000 family offers large form factor (LFF) and small form factor (SFF) 12 Gb SAS expansion enclosure models, as well as a high-density expansion enclosure model. FlashSystem 7000 LFF Expansion Enclosure Model 12G supports up to twelve 3.5-inch drives, while FlashSystem 7000 SFF Expansion Enclosure Model 24G supports up to twenty-four 2.5-inch drives. FlashSystem 7000 High-density Expansion Enclosure Model 92G supports up to ninety-two drives. 10k rpm disk drives, 7.2k rpm disk drives, and flash (solid state) drives are supported. Drives of the same form factor can be intermixed within an enclosure and expansion enclosures can be intermixed within a FlashSystem 7200 system.

Attachment and intermixing of existing IBM Storwize<sup>®</sup> V7000 expansion enclosure models 12F, 24F, and 92F with FlashSystem 7000 expansion enclosure models 12G, 24G, and 92G is supported with FlashSystem 7200 Model 824 and with Storwize V7000 models 524, 624, and 724.

FlashSystem 7200 systems scale up to 760 drives with the attachment of FlashSystem 7000 expansion enclosures. FlashSystem 7200 systems can be clustered to help deliver greater performance, bandwidth, and scalability. A

FlashSystem 7200 clustered system can contain up to four FlashSystem 7200 systems and up to 3,040 drives.

FlashSystem 7200 Model 824 systems can be added into existing clustered systems that include Storwize V7000 systems (full feature software option required), FlashSystem 9100, or FlashSystem 9200 systems.

All FlashSystem 7200 functional capabilities are provided through IBM Spectrum Virtualize Software. For additional information about FlashSystem 7200 functional capabilities and software, see the materials listed in the [Reference information](#) section.

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## Key requirements

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FlashSystem 7000 Model 824, U7C, 12G, 24G, and 92G require IBM Spectrum Virtualize Software V8.3.1, or later, for operation. Use of the software is entitled through the acquisition of IBM Spectrum Virtualize software licenses.

The 4.8 TB, 9.6 TB, and 19.2 TB FlashCore Modules (features ADS5, ADS6, ADS7) require IBM Spectrum Virtualize Software V8.2.1.6, or later for operation on the V8.2 code stream, or IBM Spectrum Virtualize Software V8.3.0.1, or later for operation on the V8.3 code stream.

The 38.4 TB FlashCore Module (feature ADS8) requires IBM Spectrum Virtualize Software V8.3.1, or later for operation.

The 350 GB, 750 GB, 800 GB, and 1.6 TB Storage Class Memory drives (features ADTA, ADTB, ADTE, ADTF) require IBM Spectrum Virtualize Software V8.3.1, or later for operation.

FlashSystem 7200 function capabilities are provided through IBM Spectrum Virtualize software and licensed through IBM Spectrum Virtualize Software for FlashSystem 7000 (SW PID 5639-DB8) for control enclosures and IBM Spectrum Virtualize Software for FlashSystem 7000 Expansions (SW PID 5639-XD8) for expansion enclosures.

FlashSystem 7200 external virtualization capabilities are provided through IBM Spectrum Virtualize software and licensed through IBM Spectrum Virtualize Software for SAN Volume Controller (SW PID 5641-VC8 in AAS and SW PID 5725-M19 in Passport Advantage<sup>(R)</sup>).

For a comprehensive list of supported environments, devices, and configurations, go to the [IBM System Storage™ Interoperation Center \(SSIC\)](#) website.

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## Planned availability date

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- March 6, 2020: All IBM FlashSystem 7000 models and features, except as noted below
- June 12, 2020: TAA Compliance (feature number 0983)
- April 17, 2020: 32 Gb FC LW SFP Transceivers (feature number ACHV) and 25GbE (RoCE) Adapter Pair (feature number ADB6)

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## Description

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IBM FlashSystem 7200 is a virtualized, software-defined storage system comprised of various hardware components and a requisite licensed software product, IBM Spectrum Virtualize software. All functional capabilities for FlashSystem 7200 systems are provided through IBM Spectrum Virtualize software.

FlashSystem 7200 Model 824 is designed to meet modern high-performance storage requirements, including ultra-low latency, cost-effectiveness, operational efficiency,

and mission-critical reliability. It is built on a flash-optimized design, with an end-to-end NVMe strategy to bring extremely low latencies to organizations of all sizes.

FlashSystem 7200 Model 824 consists of:

- Two node canisters, each with two 8-core processors and integrated hardware-assisted compression acceleration
- 256 GB cache (128 GB per canister) standard with options from 768 GB to 1536 GB (per system)
- Eight 10 Gb Ethernet ports standard for iSCSI connectivity (copper)
- 32 Gb / 16 Gb Fibre Channel (FC) connectivity options with FC-NVMe support (fiber)
- 25 Gb Ethernet connectivity options with iSCSI and iSER (RoCe V2 and iWARP) support (fiber)
- 12 Gb SAS ports for optional expansion enclosure attachment
- Twenty-four slots for NVMe flash drives, including four storage-class memory drives
- 2U, 19-inch rack mount enclosure with AC power supplies

IBM 2076 Model U7C is the FlashSystem 7200 hardware component to be utilized in the IBM Storage Utility Offering space. It is physically and functionally identical to FlashSystem7200 Model 824 with the exception of target configurations and variable capacity billing. The variable capacity billing uses IBM Spectrum Control Storage Insights to monitor the system usage, enabling allocated storage usage above a base subscription rate to be billed per terabyte, per month. Allocated storage is identified as storage that is allocated to a specific host (and unusable to other hosts), whether data is written or not. For thin provisioning, the data that is actually written is considered used. For thick provisioning, total allocated volume space is considered used.

Attachment and intermixing of existing Storwize V7000 expansion enclosure models 12F, 24F, and 92F with FlashSystem 7200 expansion enclosure models 12G, 24G, and 92G is supported with FlashSystem 7200 Model 824 and Storwize V7000 Models 524, 624, and 724.

FlashSystem 7000 LFF Expansion Enclosure Model 12G includes:

- Two expansion canisters
- 12 Gb SAS ports for control enclosure and expansion enclosure attachment
- Twelve slots for 3.5-inch SAS drives
- 2U, 19-inch rack-mount enclosure with AC power supplies

FlashSystem 7000 SFF Expansion Enclosure Model 24G includes:

- Two expansion canisters
- 12 Gb SAS ports for control enclosure and expansion enclosure attachment
- Twenty-four slots for 2.5-inch SAS drives
- 2U, 19-inch rack-mount enclosure with AC power supplies

FlashSystem 7000 HD LFF Expansion Enclosure Model 92G includes:

- Two expansion canisters
- 12 Gb SAS ports for control enclosure and expansion enclosure attachment
- Ninety-two slots for 2.5-inch and 3.5-inch SAS drives in a 3.5-inch carrier
- 5U, 19-inch rack-mount enclosure with AC power supplies

### **FC and Ethernet connectivity with intermix flexibility**

FlashSystem 7200 Model 824 systems include eight 10 Gb Ethernet ports standard for iSCSI connectivity and two 1 Gb Ethernet ports for service technician use. These

models can be configured with up to three I/O adapter features to provide up to twenty-four 32 Gb or 16 Gb FC ports with FC-NVMe support or up to twelve 25 Gb Ethernet ports with iSCSI and iSER (RoCE V2 and iWARP) support.

### **Storage-class memory**

Continuing with the commitment to transform data value with a complete NVMe strategy, FlashSystem 7200 comes with support for storage-class memory NVMe drives. These small capacity, ultra low latency drives can be used in conjunction with Easy Tier to further improve the overall performance of your NVMe workloads, or as a stand alone flash storage tier with even higher performance.

The following NVMe storage-class memory drives are supported in FlashSystem 7200 Model 824 control enclosures:

- 375 GB NVMe storage-class memory drive
- 750 GB NVMe storage-class memory drive
- 800 GB NVMe storage-class memory drive
- 1.6 TB NVMe storage-class memory drive

### **IBM FlashCore Modules and industry-standard NVMe drive options**

FlashSystem 7200 Model 824 is designed to support FlashCore Modules, industry-standard flash drives, and an intermix of both.

FlashCore Modules integrate IBM MicroLatency<sup>(R)</sup> technology, advanced flash management, and reliability into a 2.5-inch SFF NVMe with built-in performance-neutral hardware compression and encryption.

For improved flexibility, FlashSystem 7200 Model 824 systems also support a variety of industry-standard, self-encrypting NVMe flash drives.

Deployments requiring higher flexibility, scalability, density, and cost benefits of hard disk drives can take advantage of FlashSystem 7200 Expansion Enclosures.

The following NVMe FlashCore Modules are supported in FlashSystem 7200 Model 824 control enclosures:

- 4.8 TB NVMe FlashCore Module
- 9.6 TB NVMe FlashCore Module
- 19.2 TB NVMe FlashCore Module
- 38.4 TB NVMe FlashCore Module

The following NVMe industry-standard drives are supported in FlashSystem 7200 Model 824 control enclosures:

- 800 GB 3DWPD NVMe flash drive
- 1.92 TB NVMe flash drive
- 3.84 TB NVMe flash drive
- 7.68 TB NVMe flash drive
- 15.36 TB NVMe flash drive

All drives are dual-port and hot-swappable. Drives can be intermixed in the control enclosure as long as configuration rules are followed. Expansion enclosures can be intermixed behind the control enclosure

### **Drive options and intermix flexibility meet a complete range of needs**

FlashSystem 7200 is designed to support the complete range of data storage requirements, from highly utilized applications to high-capacity, low usage applications and can be configured as an all-flash or a hybrid-flash array.

The following SAS drives are supported on FlashSystem 7000 expansion enclosures:

FlashSystem 7000 LFF Expansion Enclosure Model 12G:

- High-capacity, archival-class, nearline 7,200 rpm drives in 4 TB, 6 TB, 8 TB, 10 TB, 12 TB, and 14 TB

FlashSystem 7000 SFF Expansion Enclosure Model 24G:

- High-capacity, archival-class, nearline 7,200 rpm drives in 2 TB
- High-performance, enterprise class disk 10,000 rpm drives in 900 GB, 1.2 TB, 1.8 TB, and 2.4 TB
- Flash drives in 400 GB, 800 GB, 1.6 TB, 1.92 TB, 3.2 TB, 3.84 TB, 7.68 TB, 15.36 TB, and 30.72 TB

FlashSystem 7000 HD LFF Expansion Enclosure Model 92G:

- High-capacity, archival-class, nearline 7,200 rpm drives in 6 TB, 8 TB, 10 TB, 12 TB, and 14 TB
- High-performance, enterprise class disk 10,000 rpm drives in 1.2 TB, 1.8 TB, and 2.4 TB
- Flash drives in 1.6 TB, 1.92 TB, 3.2 TB, 3.84 TB, 7.68 TB, 15.36 TB, and 30.72 TB

### **Scalable configurations respond to growing capacity needs**

A single FlashSystem 7200 Model 824 control enclosure can support up to 20 FlashSystem 7000 expansion enclosures with a maximum of 760 drives per system. Expansion enclosures are designed to be dynamically added with no downtime, helping to quickly and seamlessly respond to growing capacity demands.

FlashSystem 7200 systems can be clustered to help deliver greater performance, bandwidth, and scalability. A FlashSystem 7200 clustered system can contain up to four FlashSystem 7200 systems and up to 3,040 drives.

FlashSystem 7200 Model 824 systems can be added into existing clustered systems that include Storwize V7000 systems (full feature software option required), FlashSystem 9100, or FlashSystem 9200 systems.

Further scalability can be achieved with virtualization of external storage. When FlashSystem 7200 virtualizes an external system, capacity in that external system inherits the functional richness and ease of use of FlashSystem 7200.

### **Designed for high availability**

FlashSystem 7200 is designed to offer high system and data availability with the following features:

- HyperSwap<sup>(R)</sup>
- Dual-active, intelligent node canisters with mirrored cache
- Dual-port drives with automatic drive failure detection and RAID rebuild with global hot spares
- Redundant hardware, including power supplies and fans
- Hot-swappable and customer replaceable components
- Automated path failover support for the data path between the server and the drives

### **Encryption for enhanced data security**

FlashSystem 7200 Model 824 supports encryption for data at rest. Encryption is performed by the NVMe drives and managed by the FlashSystem 7200 control enclosure for internal drives. FlashSystem 7200 control enclosures can also encrypt

all attached FlashSystem 7200 expansion enclosures and data stored in externally virtualized storage subsystems.

Encryption is enabled on FlashSystem 7200 through the acquisition of the Encryption Enablement feature. This feature enables encryption on the entire FlashSystem 7200 system, including the FlashSystem 7200 control enclosure and all attached FlashSystem 7200 expansion enclosures, as well as externally virtualized storage subsystems.

The Encryption USB Flash Drives (Four Pack) feature or a supported key server are required for encryption keys management.

### **Rich set of functional capabilities**

IBM Spectrum Virtualize combines a variety of IBM technologies, including deduplication, compression, thin provisioning, SCSI Unmap, HyperSwap (high-availability solution), Easy Tier<sup>®</sup> (automatic and dynamic data tiering), encryption of internal and external virtualized storage, FlashCopy<sup>®</sup> (snapshot), and remote data replication. These technologies are designed to enable FlashSystem 7200 to offer a rich set of functional capabilities and deliver extraordinary levels of storage efficiency when used together.

FlashSystem 7200 functional capabilities are provided through IBM Spectrum Virtualize Software for FlashSystem 7000. For additional information about FlashSystem 7200 functional capabilities and software, see the materials listed in the [Reference information](#) section.

### **IBM Storage Insights**

Available at no charge, cloud-based IBM Storage Insights provides a single dashboard that gives you a clear view of all your IBM block storage. You'll be able to make better decisions by seeing trends in performance and capacity. Storage health information enables you to focus on areas needing attention and when IBM support is needed, Storage Insights simplifies uploading logs, speeds resolution with online configuration data, and provides an overview of open tickets all in one place. Storage Insights Pro is a subscription service that provides longer historical views of data, more reporting and optimization options, and supports IBM file and block storage together with EMC VNX and VMAX.

There is no ordering required. For registration and installation information, see the [IBM Storage Insights Enrollment](#) website.

### **IBM Spectrum Virtualize for Public Cloud**

IBM Spectrum Virtualize for Public Cloud V8.3.1 is orderable in Passport Advantage and in AAS. This enables all IBM FlashSystem storage to include IBM Spectrum Virtualize for Public Cloud with storage system orders as part of a complete hybrid cloud solution. In addition, you will be able to extend the current or new SAN Volume Controller licensed capacity to IBM Spectrum Virtualize for Public Cloud, enabling flexible hybrid multicloud deployments. Support for Amazon Web Services (AWS) allows for deployment of IBM Spectrum Virtualize for Public Cloud on supported AWS EC2 instances, deployed through the AWS Marketplace. You can create secondary copies of on-premises data in the public cloud for disaster recovery, workload mobility, or migration of data between on-premises data centers and the public cloud. The software is accompanied by several blueprint guides for complete application-aware hybrid cloud deployments.

IBM Spectrum Virtualize for Public Cloud software delivers a powerful solution for creating hybrid multicloud architectures, extending on-premises appliances like FlashSystem 7200 systems to public clouds, or independently deploying IBM Spectrum Virtualize for Public Cloud to manage data on the cloud just like on premises.

IBM Spectrum Virtualize for Public Cloud V8.3.1 adds the following benefits:

- Support for up to four nodes in a cluster on AWS

- Support for up to 20 EBS volumes provisioned to a cluster
- Support for up to 320 TB of storage in a single cluster
- Improved IO performance compared to V8.3.0. on larger Amazon Elastic Compute Cloud (Amazon EC2) instances as a result of additional RAM and processor capacity
- Data reduction pools with deduplication on AWS and on IBM Cloud™
- Support for software-based compression on AWS
- Expanded support from Intel Xeon™ E5-2620 or E5-2650 bare metal servers to include Intel Xeon 5120 on IBM Cloud

IBM Spectrum Virtualize for Public Cloud V8.3.1 is a fully inclusive license with a flat per TiB licensing model. It can be ordered through Passport Advantage as either a monthly term license or as a perpetual license. Through AAS, the software can be ordered with IBM FlashSystem hardware as a perpetual license. Support for AWS enables deployment of IBM Spectrum Virtualize for Public Cloud on supported AWS EC2 instances, deployable through the AWS Marketplace. Through the use of Cloud Formation Templates from Amazon, clients can deploy a cluster on the public cloud in just 15 minutes with an existing Amazon Virtual Private Cloud (Amazon VPC) on AWS. Clients will be able to create hybrid multicloud solutions, offering the ability to transfer block data between on-premises data centers or private clouds using any IBM Spectrum Virtualize-based appliance, such as SVC, IBM FlashSystem appliances, IBM Storwize Family appliances, and VersaStack. You can create secondary copies of their on-premises data in the public cloud for disaster recovery, workload redistribution, or migration of data from on-premises data centers to the public cloud. Consistent APIs, CLIs, and UIs between private and public clouds enable clients to provision and manage data on public clouds in the same as they do on premises. Additionally, with newly added deduplication and compression with data reduction pools, clients will have similar optimization capabilities on cloud infrastructures as they do on premises.

### Accessibility by people with disabilities

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Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Report Request](#) website.

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### Reference information

FlashSystem 7000 family product information is available on the [IBM FlashSystem 7000](#) website.

For additional information about IBM Spectrum Virtualize software, see Software Announcement [220-023](#), dated February 11, 2020.

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### Product number

The following are newly announced features and models on the specified models of the IBM System Storage 2076 machine type:

Description	Machine type	Model	Feature
FlashSystem Expansion Bezel	2076	12F	ACZM
IBM FlashSystem 7000 LFF Expansion Enclosure	2076	12G	
JEMT Indicator	2076	12G	0021
TAA Compliance	2076	12G	0983

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Rack Indicator None	2076	12G	4650
Rack Indicator Rack 1	2076	12G	4651
Rack Indicator Rack 2	2076	12G	4652
Rack Indicator Rack 3	2076	12G	4653
Rack Indicator Rack 4	2076	12G	4654
Rack Indicator Rack 5	2076	12G	4655
Rack Indicator Rack 6	2076	12G	4656
Rack Indicator Rack 7	2076	12G	4657
Rack Indicator Rack 8	2076	12G	4658
Rack Indicator Rack 9	2076	12G	4659
Rack Indicator Rack 10	2076	12G	4660
Rack Indicator Rack 11	2076	12G	4661
Rack Indicator Rack 12	2076	12G	4662
Rack Indicator Rack 13	2076	12G	4663
Rack Indicator Rack 14	2076	12G	4664
Rack Indicator Rack 15	2076	12G	4665
Rack Indicator Rack 16	2076	12G	4666
Bulk Order Indicator	2076	12G	5555
Storage Subsystem ID 1	2076	12G	9170
Storage Subsystem ID 2	2076	12G	9171
Storage Subsystem ID 3	2076	12G	9172
Storage Subsystem ID 4	2076	12G	9173
Storage Subsystem ID 5	2076	12G	9174
Storage Subsystem ID 6	2076	12G	9175
Storage Subsystem ID 7	2076	12G	9176
Storage Subsystem ID 8	2076	12G	9177
Storage Subsystem ID 9	2076	12G	9178
Storage Subsystem ID 10	2076	12G	9179
Storage Subsystem ID 11	2076	12G	9180
Storage Subsystem ID 12	2076	12G	9181
Storage Subsystem ID 13	2076	12G	9182



<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Storage Subsystem ID 14	2076	12G	9183
Storage Subsystem ID 15	2076	12G	9184
Storage Subsystem ID 16	2076	12G	9185
Storage Subsystem ID 17	2076	12G	9186
Storage Subsystem ID 18	2076	12G	9187
Storage Subsystem ID 19	2076	12G	9188
Storage Subsystem ID 20	2076	12G	9189
Power Cord - EMEA	2076	12G	9716
Power Cord - Australia / New Zealand	2076	12G	9717
Power Cord - Europe / Africa	2076	12G	9718
Power Cord - Denmark	2076	12G	9719
Power Cord - South Africa	2076	12G	9720
Power Cord - Switzerland	2076	12G	9721
Power Cord - Chile / Italy	2076	12G	9722
Power Cord - Israel	2076	12G	9723
Power Cord - Argentina	2076	12G	9725
Power Cord - China	2076	12G	9726
Power Cord - PDU Connection	2076	12G	9730
Power Cord - US/ Group 1	2076	12G	9731
Power Cord - Taiwan	2076	12G	9732
Power Cord - Brazil	2076	12G	9733
Power Cord - India	2076	12G	9734
Power Cord - Japan	2076	12G	9735
Power Cord - Korea	2076	12G	9736
Power Cord - Chicago	2076	12G	9737
RFID AG/AP: 902-928 MHz	2076	12G	A2EV
RFID EMEA: 865.6-867.8 MHz	2076	12G	A2EW
0.6m 12 Gb SAS Cable (mSAS HD)	2076	12G	ACUA
1.5m 12 Gb SAS Cable (mSAS HD)	2076	12G	ACUB
3m 12 Gb SAS Cable (mSAS HD)	2076	12G	ACUC
6m 12 Gb SAS Cable (mSAS HD)	2076	12G	ACUD

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
OEM 1 FC Order Indicator	2076	12G	ACW1
OEM 2 FC Order Indicator	2076	12G	ACW2
OEM 3 FC Order Indicator	2076	12G	ACW3
OEM 4 FC Order Indicator	2076	12G	ACW4
OEM 5 FC Order Indicator	2076	12G	ACW5
OEM 6 FC Order Indicator	2076	12G	ACW6
OEM 7 FC Order Indicator	2076	12G	ACW7
OEM 8 FC Order Indicator	2076	12G	ACW8
OEM 9 FC Order Indicator	2076	12G	ACW9
OEM 10 FC Order Indicator	2076	12G	ACWA
OEM 11 FC Order Indicator	2076	12G	ACWB
OEM 12 FC Order Indicator	2076	12G	ACWC
OEM 13 FC Order Indicator	2076	12G	ACWD
OEM 14 FC Order Indicator	2076	12G	ACWE
OEM 15 FC Order Indicator	2076	12G	ACWF
OEM 1 MTM Order Indicator	2076	12G	ACY1
OEM 2 MTM Order Indicator	2076	12G	ACY2
OEM 3 MTM Order Indicator	2076	12G	ACY3
OEM 4 MTM Order Indicator	2076	12G	ACY4
OEM 5 MTM Order Indicator	2076	12G	ACY5
OEM 6 MTM Order Indicator	2076	12G	ACY6
OEM 7 MTM Order Indicator	2076	12G	ACY7
OEM 8 MTM Order Indicator	2076	12G	ACY8
OEM 9 MTM Order Indicator	2076	12G	ACY9
OEM 10 MTM Order Indicator	2076	12G	ACYA
OEM 11 MTM Order Indicator	2076	12G	ACYB
OEM 12 MTM Order Indicator	2076	12G	ACYC
OEM 13 MTM Order Indicator	2076	12G	ACYD
OEM 14 MTM Order Indicator	2076	12G	ACYE
OEM 15 MTM Order Indicator	2076	12G	ACYF
Generic Bezel	2076	12G	ACZA
Generic Packaging	2076	12G	ACZF

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Storwize Expansion Bezel	2076	12G	ACZK
Order Type 1 Indicator - CTO	2076	12G	ADN1
Order Type 2 Indicator - MTM Only	2076	12G	ADN2
Order Type 3 Indicator - FC Only	2076	12G	ADN3
TAA Designated Country	2076	12G	ADZ1
Shipping and Handling NC	2076	12G	AG00
Shipping and Handling	2076	12G	AGDA
4TB 7.2K 3.5 Inch NL HDD	2076	12G	AHD3
6TB 7.2K 3.5 Inch HDD	2076	12G	AHD4
8TB 7.2K 3.5 Inch NL HDD	2076	12G	AHD5
10TB 7.2K 3.5 Inch NL HDD	2076	12G	AHD6
12TB 7.2K 3.5 Inch NL HDD	2076	12G	AHD7
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2076	12G	AHD8
Power Cord - PDU C20	2076	12G	AHP6
Future use - reserved 1	2076	12G	AHY1
Future use - reserved 2	2076	12G	AHY2
Future use - reserved 3	2076	12G	AHY3
Future use - reserved 4	2076	12G	AHY4
Future use - reserved 5	2076	12G	AHY5
Future use - reserved 6	2076	12G	AHY6
Future use - reserved 7	2076	12G	AHY7
Future use - reserved 8	2076	12G	AHY8
Future use - reserved 9	2076	12G	AHY9
VersaStack Solution Indicator	2076	12G	AHZC
Hybrid Flash Indicator	2076	12G	AHZE
CSC ORDER ROUTING INDICATOR - GUADALAJARA	2076	12G	ECSM
Route to Power Manufacturing Indicator	2076	12G	EFD0
BP Post-Sale Services	2076	12G	SVBP

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
IBM Systems Lab Services Post-Sale Services	2076	12G	SVCS
Other IBM Post-Sale Services	2076	12G	SVNN
FlashSystem Expansion Bezel	2076	24F	ACZM
IBM FlashSystem 7000 SFF Expansion Enclosure	2076	24G	
JEMT Indicator	2076	24G	0021
TAA Compliance	2076	24G	0983
Rack Indicator None	2076	24G	4650
Rack Indicator Rack 1	2076	24G	4651
Rack Indicator Rack 2	2076	24G	4652
Rack Indicator Rack 3	2076	24G	4653
Rack Indicator Rack 4	2076	24G	4654
Rack Indicator Rack 5	2076	24G	4655
Rack Indicator Rack 6	2076	24G	4656
Rack Indicator Rack 7	2076	24G	4657
Rack Indicator Rack 8	2076	24G	4658
Rack Indicator Rack 9	2076	24G	4659
Rack Indicator Rack 10	2076	24G	4660
Rack Indicator Rack 11	2076	24G	4661
Rack Indicator Rack 12	2076	24G	4662
Rack Indicator Rack 13	2076	24G	4663
Rack Indicator Rack 14	2076	24G	4664
Rack Indicator Rack 15	2076	24G	4665
Rack Indicator Rack 16	2076	24G	4666
Bulk Order Indicator	2076	24G	5555
Storage Subsystem ID 1	2076	24G	9170
Storage Subsystem ID 2	2076	24G	9171
Storage Subsystem ID 3	2076	24G	9172
Storage Subsystem ID 4	2076	24G	9173
Storage Subsystem ID 5	2076	24G	9174
Storage Subsystem ID 6	2076	24G	9175
Storage Subsystem ID 7	2076	24G	9176

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Storage Subsystem ID 8	2076	24G	9177
Storage Subsystem ID 9	2076	24G	9178
Storage Subsystem ID 10	2076	24G	9179
Storage Subsystem ID 11	2076	24G	9180
Storage Subsystem ID 12	2076	24G	9181
Storage Subsystem ID 13	2076	24G	9182
Storage Subsystem ID 14	2076	24G	9183
Storage Subsystem ID 15	2076	24G	9184
Storage Subsystem ID 16	2076	24G	9185
Storage Subsystem ID 17	2076	24G	9186
Storage Subsystem ID 18	2076	24G	9187
Storage Subsystem ID 19	2076	24G	9188
Storage Subsystem ID 20	2076	24G	9189
Power Cord - EMEA	2076	24G	9716
Power Cord - Australia / New Zealand	2076	24G	9717
Power Cord - Europe / Africa	2076	24G	9718
Power Cord - Denmark	2076	24G	9719
Power Cord - South Africa	2076	24G	9720
Power Cord - Switzerland	2076	24G	9721
Power Cord - Chile / Italy	2076	24G	9722
Power Cord - Israel	2076	24G	9723
Power Cord - Argentina	2076	24G	9725
Power Cord - China	2076	24G	9726
Power Cord - PDU Connection	2076	24G	9730
Power Cord - US/ Group 1	2076	24G	9731
Power Cord - Taiwan	2076	24G	9732
Power Cord - Brazil	2076	24G	9733
Power Cord - India	2076	24G	9734
Power Cord - Japan	2076	24G	9735
Power Cord - Korea	2076	24G	9736
Power Cord - Chicago	2076	24G	9737

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
RFID AG/AP: 902-928 MHz	2076	24G	A2EV
RFID EMEA: 865.6-867.8 MHz	2076	24G	A2EW
0.6m 12 Gb SAS Cable (mSAS HD)	2076	24G	ACUA
1.5m 12 Gb SAS Cable (mSAS HD)	2076	24G	ACUB
3m 12 Gb SAS Cable (mSAS HD)	2076	24G	ACUC
6m 12 Gb SAS Cable (mSAS HD)	2076	24G	ACUD
OEM 1 FC Order Indicator	2076	24G	ACW1
OEM 2 FC Order Indicator	2076	24G	ACW2
OEM 3 FC Order Indicator	2076	24G	ACW3
OEM 4 FC Order Indicator	2076	24G	ACW4
OEM 5 FC Order Indicator	2076	24G	ACW5
OEM 6 FC Order Indicator	2076	24G	ACW6
OEM 7 FC Order Indicator	2076	24G	ACW7
OEM 8 FC Order Indicator	2076	24G	ACW8
OEM 9 FC Order Indicator	2076	24G	ACW9
OEM 10 FC Order Indicator	2076	24G	ACWA
OEM 11 FC Order Indicator	2076	24G	ACWB
OEM 12 FC Order Indicator	2076	24G	ACWC
OEM 13 FC Order Indicator	2076	24G	ACWD
OEM 14 FC Order Indicator	2076	24G	ACWE
OEM 15 FC Order Indicator	2076	24G	ACWF
OEM 1 MTM Order Indicator	2076	24G	ACY1
OEM 2 MTM Order Indicator	2076	24G	ACY2
OEM 3 MTM Order Indicator	2076	24G	ACY3
OEM 4 MTM Order Indicator	2076	24G	ACY4
OEM 5 MTM Order Indicator	2076	24G	ACY5
OEM 6 MTM Order Indicator	2076	24G	ACY6
OEM 7 MTM Order Indicator	2076	24G	ACY7
OEM 8 MTM Order Indicator	2076	24G	ACY8
OEM 9 MTM Order Indicator	2076	24G	ACY9
OEM 10 MTM Order Indicator	2076	24G	ACYA

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
OEM 11 MTM Order Indicator	2076	24G	ACYB
OEM 12 MTM Order Indicator	2076	24G	ACYC
OEM 13 MTM Order Indicator	2076	24G	ACYD
OEM 14 MTM Order Indicator	2076	24G	ACYE
OEM 15 MTM Order Indicator	2076	24G	ACYF
Generic Bezel	2076	24G	ACZA
Generic Packaging	2076	24G	ACZF
Storwize Expansion Bezel	2076	24G	ACZK
Order Type 1 Indicator - CTO	2076	24G	ADN1
Order Type 2 Indicator - MTM Only	2076	24G	ADN2
Order Type 3 Indicator - FC Only	2076	24G	ADN3
TAA Designated Country	2076	24G	ADZ1
Shipping and Handling NC	2076	24G	AG00
Shipping and Handling	2076	24G	AGDA
900GB 10K 2.5 Inch HDD	2076	24G	AHF2
1.2TB 10K 2.5 Inch HDD	2076	24G	AHF3
1.8TB 10K 2.5 Inch HDD	2076	24G	AHF4
2.4TB 10K 2.5 Inch HDD	2076	24G	AHF5
2TB 7.2K 2.5 Inch NL HDD	2076	24G	AHG2
400GB 2.5 Inch Flash Drive	2076	24G	AHH2
800GB 2.5 Inch Flash Drive	2076	24G	AHH3
1.6TB 2.5 Inch Flash Drive	2076	24G	AHH4
3.2TB 2.5 Inch Flash Drive	2076	24G	AHH5
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	2076	24G	AHH9
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	2076	24G	AHHG
3.84TB 12 Gb SAS 2.5 Inch Flash Drive	2076	24G	AHHH
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	2076	24G	AHHJ
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	2076	24G	AHHK
30.72 TB 12 Gb SAS 2.5 Inch Flash Drive	2076	24G	AHHL

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Power Cord - PDU C20	2076	24G	AHP6
Future use - reserved 1	2076	24G	AHY1
Future use - reserved 2	2076	24G	AHY2
Future use - reserved 3	2076	24G	AHY3
Future use - reserved 4	2076	24G	AHY4
Future use - reserved 5	2076	24G	AHY5
Future use - reserved 6	2076	24G	AHY6
Future use - reserved 7	2076	24G	AHY7
Future use - reserved 8	2076	24G	AHY8
Future use - reserved 9	2076	24G	AHY9
VersaStack Solution Indicator	2076	24G	AHZC
All Flash Indicator	2076	24G	AHZD
Hybrid Flash Indicator	2076	24G	AHZE
CSC ORDER ROUTING INDICATOR - GUADALAJARA	2076	24G	ECSM
Route to Power Manufacturing Indicator	2076	24G	EFD0
BP Post-Sale Services	2076	24G	SVBP
IBM Systems Lab Services Post-Sale Services	2076	24G	SVCS
Other IBM Post-Sale Services	2076	24G	SVNN
4.8 TB NVMe FlashCore Module	2076	724	ADS5
9.6 TB NVMe FlashCore Module	2076	724	ADS6
19.2 TB NVMe FlashCore Module	2076	724	ADS7
38.4 TB NVMe FlashCore Module	2076	724	ADS8
375 GB NVMe Storage Class Memory Drive	2076	724	ADTA
750 GB NVMe Storage Class Memory Drive	2076	724	ADTB
800 GB NVMe Storage Class Memory Drive	2076	724	ADTE
1.6 TB NVMe Storage Class Memory Drive	2076	724	ADTF
IBM FlashSystem 7200 NVMe Control Enclosure	2076	824	
JEMT Indicator	2076	824	0021



<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
TAA Compliance	2076	824	0983
Rack Indicator None	2076	824	4650
Rack Indicator Rack 1	2076	824	4651
Rack Indicator Rack 2	2076	824	4652
Rack Indicator Rack 3	2076	824	4653
Rack Indicator Rack 4	2076	824	4654
Rack Indicator Rack 5	2076	824	4655
Rack Indicator Rack 6	2076	824	4656
Rack Indicator Rack 7	2076	824	4657
Rack Indicator Rack 8	2076	824	4658
Rack Indicator Rack 9	2076	824	4659
Rack Indicator Rack 10	2076	824	4660
Rack Indicator Rack 11	2076	824	4661
Rack Indicator Rack 12	2076	824	4662
Rack Indicator Rack 13	2076	824	4663
Rack Indicator Rack 14	2076	824	4664
Rack Indicator Rack 15	2076	824	4665
Rack Indicator Rack 16	2076	824	4666
Bulk Order Indicator	2076	824	5555
Storage Subsystem ID 1	2076	824	9170
Storage Subsystem ID 2	2076	824	9171
Storage Subsystem ID 3	2076	824	9172
Storage Subsystem ID 4	2076	824	9173
Storage Subsystem ID 5	2076	824	9174
Storage Subsystem ID 6	2076	824	9175
Storage Subsystem ID 7	2076	824	9176
Storage Subsystem ID 8	2076	824	9177
Storage Subsystem ID 9	2076	824	9178
Storage Subsystem ID 10	2076	824	9179
Storage Subsystem ID 11	2076	824	9180
Storage Subsystem ID 12	2076	824	9181

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Storage Subsystem ID 13	2076	824	9182
Storage Subsystem ID 14	2076	824	9183
Storage Subsystem ID 15	2076	824	9184
Storage Subsystem ID 16	2076	824	9185
Storage Subsystem ID 17	2076	824	9186
Storage Subsystem ID 18	2076	824	9187
Storage Subsystem ID 19	2076	824	9188
Storage Subsystem ID 20	2076	824	9189
Power Cord - EMEA	2076	824	9716
Power Cord - Australia / New Zealand	2076	824	9717
Power Cord - Europe / Africa	2076	824	9718
Power Cord - Denmark	2076	824	9719
Power Cord - South Africa	2076	824	9720
Power Cord - Switzerland	2076	824	9721
Power Cord - Chile / Italy	2076	824	9722
Power Cord - Israel	2076	824	9723
Power Cord - Argentina	2076	824	9725
Power Cord - China	2076	824	9726
Power Cord - PDU Connection	2076	824	9730
Power Cord - Brazil	2076	824	9733
Power Cord - India	2076	824	9734
Power Cord - Korea	2076	824	9736
RFID AG/AP: 902-928 MHz	2076	824	A2EV
RFID EMEA: 865.6-867.8 MHz	2076	824	A2EW
Encryption Enablement	2076	824	ACE1
Encryption USB Drive Pack	2076	824	ACEA
768 GB Cache upgrade	2076	824	ACGB
512 GB Cache upgrade	2076	824	ACGJ
240 GB M.2 Boot drive Pair	2076	824	ACGV
16 Gb FC LW SFP Transceivers(Pair)	2076	824	ACHU
32 Gb FC LW SFP Transceivers (Pair)	2076	824	ACHV

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
1m OM3 Fiber Cable (LC)	2076	824	ACSQ
5m OM3 Fiber Cable (LC)	2076	824	ACSR
10m OM3 Fiber Cable (LC)	2076	824	ACSS
25m OM3 Fiber Cable (LC)	2076	824	ACST
OEM 1 FC Order Indicator	2076	824	ACW1
OEM 2 FC Order Indicator	2076	824	ACW2
OEM 3 FC Order Indicator	2076	824	ACW3
OEM 4 FC Order Indicator	2076	824	ACW4
OEM 5 FC Order Indicator	2076	824	ACW5
OEM 6 FC Order Indicator	2076	824	ACW6
OEM 7 FC Order Indicator	2076	824	ACW7
OEM 8 FC Order Indicator	2076	824	ACW8
OEM 9 FC Order Indicator	2076	824	ACW9
OEM 10 FC Order Indicator	2076	824	ACWA
OEM 11 FC Order Indicator	2076	824	ACWB
OEM 12 FC Order Indicator	2076	824	ACWC
OEM 13 FC Order Indicator	2076	824	ACWD
OEM 14 FC Order Indicator	2076	824	ACWE
OEM 15 FC Order Indicator	2076	824	ACWF
OEM 1 MTM Order Indicator	2076	824	ACY1
OEM 2 MTM Order Indicator	2076	824	ACY2
OEM 3 MTM Order Indicator	2076	824	ACY3
OEM 4 MTM Order Indicator	2076	824	ACY4
OEM 5 MTM Order Indicator	2076	824	ACY5
OEM 6 MTM Order Indicator	2076	824	ACY6
OEM 7 MTM Order Indicator	2076	824	ACY7
OEM 8 MTM Order Indicator	2076	824	ACY8
OEM 9 MTM Order Indicator	2076	824	ACY9
OEM 10 MTM Order Indicator	2076	824	ACYA
OEM 11 MTM Order Indicator	2076	824	ACYB
OEM 12 MTM Order Indicator	2076	824	ACYC

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
OEM 13 MTM Order Indicator	2076	824	ACYD
OEM 14 MTM Order Indicator	2076	824	ACYE
OEM 15 MTM Order Indicator	2076	824	ACYF
Generic Bezel	2076	824	ACZA
Generic Packaging	2076	824	ACZF
16 Gb FC 4 Port Adapter Cards (Pair)	2076	824	ADB3
32 Gb FC 4 Port Adapter Cards (Pair)	2076	824	ADB4
25GbE (RoCE) Adapter Cards (Pair)	2076	824	ADB6
25GbE (iWARP) Adapter Cards (Pair)	2076	824	ADB7
SAS Enclosure Attach Card Pair	2076	824	ADBA
Order Type 1 Indicator - CTO	2076	824	ADN1
Order Type 2 Indicator - MTM Only	2076	824	ADN2
Order Type 3 Indicator - FC Only	2076	824	ADN3
No Rules Order Indicator	2076	824	ADNR
4.8 TB NVMe FlashCore Module	2076	824	ADS5
9.6 TB NVMe FlashCore Module	2076	824	ADS6
19.2 TB NVMe FlashCore Module	2076	824	ADS7
38.4 TB NVMe FlashCore Module	2076	824	ADS8
800 GB NVMe Flash Drive	2076	824	ADT1
1.92 TB NVMe Flash Drive	2076	824	ADT2
3.84 TB NVMe Flash Drive	2076	824	ADT3
7.68 TB NVMe Flash Drive	2076	824	ADT4
15.36 TB NVMe Flash Drive	2076	824	ADT5
375 GB NVMe Storage Class Memory Drive	2076	824	ADTA
750 GB NVMe Storage Class Memory Drive	2076	824	ADTB
800 GB NVMe Storage Class Memory Drive	2076	824	ADTE
1.6 TB NVMe Storage Class Memory Drive	2076	824	ADTF
TAA Designated Country	2076	824	ADZ1

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Shipping and Handling NC	2076	824	AG00
Shipping and Handling	2076	824	AGDA
Power Cord - PDU C20	2076	824	AHP6
Future use - reserved 1	2076	824	AHY1
Future use - reserved 2	2076	824	AHY2
Future use - reserved 3	2076	824	AHY3
Future use - reserved 4	2076	824	AHY4
Future use - reserved 5	2076	824	AHY5
Future use - reserved 6	2076	824	AHY6
Future use - reserved 7	2076	824	AHY7
Future use - reserved 8	2076	824	AHY8
Future use - reserved 9	2076	824	AHY9
VersaStack Solution Indicator	2076	824	AHZC
All Flash Indicator	2076	824	AHZD
Hybrid Flash Indicator	2076	824	AHZE
Red Hat <sup>(R)</sup> OpenShift <sup>(R)</sup> Indicator	2076	824	AJGH
CSC ORDER ROUTING INDICATOR - GUADALAJARA	2076	824	ECSM
Route to Power Manufacturing Indicator	2076	824	EFD0
BP Post-Sale Services	2076	824	SVBP
IBM Systems Lab Services Post-Sale Services	2076	824	SVCS
Other IBM Post-Sale Services	2076	824	SVNN
FlashSystem Expansion Bezel	2076	92F	ACZM
IBM FlashSystem 7000 High Density LFF Expansion Enclosure	2076	92G	
JEMT Indicator	2076	92G	0021
TAA Compliance	2076	92G	0983
Rack Indicator None	2076	92G	4650
Rack Indicator Rack 1	2076	92G	4651
Rack Indicator Rack 2	2076	92G	4652
Rack Indicator Rack 3	2076	92G	4653

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Rack Indicator Rack 4	2076	92G	4654
Rack Indicator Rack 5	2076	92G	4655
Rack Indicator Rack 6	2076	92G	4656
Rack Indicator Rack 7	2076	92G	4657
Rack Indicator Rack 8	2076	92G	4658
Rack Indicator Rack 9	2076	92G	4659
Rack Indicator Rack 10	2076	92G	4660
Rack Indicator Rack 11	2076	92G	4661
Rack Indicator Rack 12	2076	92G	4662
Rack Indicator Rack 13	2076	92G	4663
Rack Indicator Rack 14	2076	92G	4664
Rack Indicator Rack 15	2076	92G	4665
Rack Indicator Rack 16	2076	92G	4666
Bulk Order Indicator	2076	92G	5555
Storage Subsystem ID 1	2076	92G	9170
Storage Subsystem ID 2	2076	92G	9171
Storage Subsystem ID 3	2076	92G	9172
Storage Subsystem ID 4	2076	92G	9173
Storage Subsystem ID 5	2076	92G	9174
Storage Subsystem ID 6	2076	92G	9175
Storage Subsystem ID 7	2076	92G	9176
Storage Subsystem ID 8	2076	92G	9177
Storage Subsystem ID 9	2076	92G	9178
Storage Subsystem ID 10	2076	92G	9179
Storage Subsystem ID 11	2076	92G	9180
Storage Subsystem ID 12	2076	92G	9181
Storage Subsystem ID 13	2076	92G	9182
Storage Subsystem ID 14	2076	92G	9183
Storage Subsystem ID 15	2076	92G	9184
Storage Subsystem ID 16	2076	92G	9185
Storage Subsystem ID 17	2076	92G	9186

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Storage Subsystem ID 18	2076	92G	9187
Storage Subsystem ID 19	2076	92G	9188
Storage Subsystem ID 20	2076	92G	9189
RFID AG/AP: 902-928 MHz	2076	92G	A2EV
RFID EMEA: 865.6-867.8 MHz	2076	92G	A2EW
OEM 1 FC Order Indicator	2076	92G	ACW1
OEM 2 FC Order Indicator	2076	92G	ACW2
OEM 3 FC Order Indicator	2076	92G	ACW3
OEM 4 FC Order Indicator	2076	92G	ACW4
OEM 5 FC Order Indicator	2076	92G	ACW5
OEM 6 FC Order Indicator	2076	92G	ACW6
OEM 7 FC Order Indicator	2076	92G	ACW7
OEM 8 FC Order Indicator	2076	92G	ACW8
OEM 9 FC Order Indicator	2076	92G	ACW9
OEM 10 FC Order Indicator	2076	92G	ACWA
OEM 11 FC Order Indicator	2076	92G	ACWB
OEM 12 FC Order Indicator	2076	92G	ACWC
OEM 13 FC Order Indicator	2076	92G	ACWD
OEM 14 FC Order Indicator	2076	92G	ACWE
OEM 15 FC Order Indicator	2076	92G	ACWF
OEM 1 MTM Order Indicator	2076	92G	ACY1
OEM 2 MTM Order Indicator	2076	92G	ACY2
OEM 3 MTM Order Indicator	2076	92G	ACY3
OEM 4 MTM Order Indicator	2076	92G	ACY4
OEM 5 MTM Order Indicator	2076	92G	ACY5
OEM 6 MTM Order Indicator	2076	92G	ACY6
OEM 7 MTM Order Indicator	2076	92G	ACY7
OEM 8 MTM Order Indicator	2076	92G	ACY8
OEM 9 MTM Order Indicator	2076	92G	ACY9
OEM 10 MTM Order Indicator	2076	92G	ACYA
OEM 11 MTM Order Indicator	2076	92G	ACYB

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
OEM 12 MTM Order Indicator	2076	92G	ACYC
OEM 13 MTM Order Indicator	2076	92G	ACYD
OEM 14 MTM Order Indicator	2076	92G	ACYE
OEM 15 MTM Order Indicator	2076	92G	ACYF
Generic Bezel	2076	92G	ACZA
Generic Packaging	2076	92G	ACZF
Storwize Expansion Bezel	2076	92G	ACZK
Order Type 1 Indicator - CTO	2076	92G	ADN1
Order Type 2 Indicator - MTM Only	2076	92G	ADN2
Order Type 3 Indicator - FC Only	2076	92G	ADN3
TAA Designated Country	2076	92G	ADZ1
Shipping and Handling NC	2076	92G	AG00
Shipping and Handling	2076	92G	AGDA
1.2TB 10K 3.5 Inch HDD	2076	92G	AH73
1.8TB 10K 3.5 Inch HDD	2076	92G	AH74
2.4TB 10K 3.5 Inch HDD	2076	92G	AH75
6TB 7.2K 3.5 Inch NL HDD	2076	92G	AH77
8TB 7.2K 3.5 NL HDD	2076	92G	AH78
10TB 7.2K 3.5 NL HDD	2076	92G	AH79
12TB 7.2K 3.5 Inch NL HDD	2076	92G	AH7A
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	2076	92G	AH7B
1.6TB 3.5 Inch Flash Drive	2076	92G	AH7D
3.2TB 3.5 Inch Flash Drive	2076	92G	AH7E
1.92TB 12 Gb SAS 3.5 Inch Flash Drive	2076	92G	AH7J
3.84TB 12 Gb SAS 3.5 Inch Flash Drive	2076	92G	AH7K
7.68TB 12 Gb SAS 3.5 Inch Flash Drive	2076	92G	AH7L
15.36TB 12 Gb SAS 3.5 Inch Flash Drive	2076	92G	AH7M
30.72 TB 12 Gb SAS 3.5 Inch Flash Drive	2076	92G	AH7N
Power Cord - PDU HD Exp.	2076	92G	AHP5



<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Future use - reserved 1	2076	92G	AHY1
Future use - reserved 2	2076	92G	AHY2
Future use - reserved 3	2076	92G	AHY3
Future use - reserved 4	2076	92G	AHY4
Future use - reserved 5	2076	92G	AHY5
Future use - reserved 6	2076	92G	AHY6
Future use - reserved 7	2076	92G	AHY7
Future use - reserved 8	2076	92G	AHY8
Future use - reserved 9	2076	92G	AHY9
VersaStack Solution Indicator	2076	92G	AHZC
All Flash Indicator	2076	92G	AHZD
Hybrid Flash Indicator	2076	92G	AHZE
CSC ORDER ROUTING INDICATOR - GUADALAJARA	2076	92G	ECSM
Route to Power Manufacturing Indicator	2076	92G	EFD0
BP Post-Sale Services	2076	92G	SVBP
IBM Systems Lab Services Post-Sale Services	2076	92G	SVCS
Other IBM Post-Sale Services	2076	92G	SVNN
4.8 TB NVMe FlashCore Module	2076	U7B	ADS5
9.6 TB NVMe FlashCore Module	2076	U7B	ADS6
19.2 TB NVMe FlashCore Module	2076	U7B	ADS7
38.4 TB NVMe FlashCore Module	2076	U7B	ADS8
375 GB NVMe Storage Class Memory Drive	2076	U7B	ADTA
750 GB NVMe Storage Class Memory Drive	2076	U7B	ADTB
800 GB NVMe Storage Class Memory Drive	2076	U7B	ADTE
1.6 TB NVMe Storage Class Memory Drive	2076	U7B	ADTF
IBM FlashSystem 7200 Utility NVMe Control Enclosure	2076	U7C	
JEMT Indicator	2076	U7C	0021
TAA Compliance	2076	U7C	0983

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Rack Indicator None	2076	U7C	4650
Rack Indicator Rack 1	2076	U7C	4651
Rack Indicator Rack 2	2076	U7C	4652
Rack Indicator Rack 3	2076	U7C	4653
Rack Indicator Rack 4	2076	U7C	4654
Rack Indicator Rack 5	2076	U7C	4655
Rack Indicator Rack 6	2076	U7C	4656
Rack Indicator Rack 7	2076	U7C	4657
Rack Indicator Rack 8	2076	U7C	4658
Rack Indicator Rack 9	2076	U7C	4659
Rack Indicator Rack 10	2076	U7C	4660
Rack Indicator Rack 11	2076	U7C	4661
Rack Indicator Rack 12	2076	U7C	4662
Rack Indicator Rack 13	2076	U7C	4663
Rack Indicator Rack 14	2076	U7C	4664
Rack Indicator Rack 15	2076	U7C	4665
Rack Indicator Rack 16	2076	U7C	4666
Bulk Order Indicator	2076	U7C	5555
Storage Subsystem ID 1	2076	U7C	9170
Storage Subsystem ID 2	2076	U7C	9171
Storage Subsystem ID 3	2076	U7C	9172
Storage Subsystem ID 4	2076	U7C	9173
Storage Subsystem ID 5	2076	U7C	9174
Storage Subsystem ID 6	2076	U7C	9175
Storage Subsystem ID 7	2076	U7C	9176
Storage Subsystem ID 8	2076	U7C	9177
Storage Subsystem ID 9	2076	U7C	9178
Storage Subsystem ID 10	2076	U7C	9179
Storage Subsystem ID 11	2076	U7C	9180
Storage Subsystem ID 12	2076	U7C	9181
Storage Subsystem ID 13	2076	U7C	9182

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Storage Subsystem ID 14	2076	U7C	9183
Storage Subsystem ID 15	2076	U7C	9184
Storage Subsystem ID 16	2076	U7C	9185
Storage Subsystem ID 17	2076	U7C	9186
Storage Subsystem ID 18	2076	U7C	9187
Storage Subsystem ID 19	2076	U7C	9188
Storage Subsystem ID 20	2076	U7C	9189
Power Cord - EMEA	2076	U7C	9716
Power Cord - Australia / New Zealand	2076	U7C	9717
Power Cord - Europe / Africa	2076	U7C	9718
Power Cord - Denmark	2076	U7C	9719
Power Cord - South Africa	2076	U7C	9720
Power Cord - Switzerland	2076	U7C	9721
Power Cord - Chile / Italy	2076	U7C	9722
Power Cord - Israel	2076	U7C	9723
Power Cord - Argentina	2076	U7C	9725
Power Cord - China	2076	U7C	9726
Power Cord - PDU Connection	2076	U7C	9730
Power Cord - Brazil	2076	U7C	9733
Power Cord - India	2076	U7C	9734
Power Cord - Korea	2076	U7C	9736
RFID AG/AP: 902-928 MHz	2076	U7C	A2EV
RFID EMEA: 865.6-867.8 MHz	2076	U7C	A2EW
Encryption Enablement	2076	U7C	ACE1
Encryption USB Drive Pack	2076	U7C	ACEA
768 GB Cache upgrade	2076	U7C	ACGB
512 GB Cache upgrade	2076	U7C	ACGJ
240 GB M.2 Boot drive Pair	2076	U7C	ACGV
16 Gb FC LW SFP Transceivers(Pair)	2076	U7C	ACHU
32 Gb FC LW SFP Transceivers (Pair)	2076	U7C	ACHV
1m OM3 Fiber Cable (LC)	2076	U7C	ACSQ

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
5m OM3 Fiber Cable (LC)	2076	U7C	ACSR
10m OM3 Fiber Cable (LC)	2076	U7C	ACSS
25m OM3 Fiber Cable (LC)	2076	U7C	ACST
OEM 1 FC Order Indicator	2076	U7C	ACW1
OEM 2 FC Order Indicator	2076	U7C	ACW2
OEM 3 FC Order Indicator	2076	U7C	ACW3
OEM 4 FC Order Indicator	2076	U7C	ACW4
OEM 5 FC Order Indicator	2076	U7C	ACW5
OEM 6 FC Order Indicator	2076	U7C	ACW6
OEM 7 FC Order Indicator	2076	U7C	ACW7
OEM 8 FC Order Indicator	2076	U7C	ACW8
OEM 9 FC Order Indicator	2076	U7C	ACW9
OEM 10 FC Order Indicator	2076	U7C	ACWA
OEM 11 FC Order Indicator	2076	U7C	ACWB
OEM 12 FC Order Indicator	2076	U7C	ACWC
OEM 13 FC Order Indicator	2076	U7C	ACWD
OEM 14 FC Order Indicator	2076	U7C	ACWE
OEM 15 FC Order Indicator	2076	U7C	ACWF
OEM 1 MTM Order Indicator	2076	U7C	ACY1
OEM 2 MTM Order Indicator	2076	U7C	ACY2
OEM 3 MTM Order Indicator	2076	U7C	ACY3
OEM 4 MTM Order Indicator	2076	U7C	ACY4
OEM 5 MTM Order Indicator	2076	U7C	ACY5
OEM 6 MTM Order Indicator	2076	U7C	ACY6
OEM 7 MTM Order Indicator	2076	U7C	ACY7
OEM 8 MTM Order Indicator	2076	U7C	ACY8
OEM 9 MTM Order Indicator	2076	U7C	ACY9
OEM 10 MTM Order Indicator	2076	U7C	ACYA
OEM 11 MTM Order Indicator	2076	U7C	ACYB
OEM 12 MTM Order Indicator	2076	U7C	ACYC
OEM 13 MTM Order Indicator	2076	U7C	ACYD

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
OEM 14 MTM Order Indicator	2076	U7C	ACYE
OEM 15 MTM Order Indicator	2076	U7C	ACYF
Generic Bezel	2076	U7C	ACZA
Generic Packaging	2076	U7C	ACZF
16 Gb FC 4 Port Adapter Cards (Pair)	2076	U7C	ADB3
32 Gb FC 4 Port Adapter Cards (Pair)	2076	U7C	ADB4
25GbE (RoCE) Adapter Cards (Pair)	2076	U7C	ADB6
25GbE (iWARP) Adapter Cards (Pair)	2076	U7C	ADB7
SAS Enclosure Attach Card Pair	2076	U7C	ADBA
Order Type 1 Indicator - CTO	2076	U7C	ADN1
Order Type 2 Indicator - MTM Only	2076	U7C	ADN2
Order Type 3 Indicator - FC Only	2076	U7C	ADN3
No Rules Order Indicator	2076	U7C	ADNR
4.8 TB NVMe FlashCore Module	2076	U7C	ADS5
9.6 TB NVMe FlashCore Module	2076	U7C	ADS6
19.2 TB NVMe FlashCore Module	2076	U7C	ADS7
38.4 TB NVMe FlashCore Module	2076	U7C	ADS8
800 GB NVMe Flash Drive	2076	U7C	ADT1
1.92 TB NVMe Flash Drive	2076	U7C	ADT2
3.84 TB NVMe Flash Drive	2076	U7C	ADT3
7.68 TB NVMe Flash Drive	2076	U7C	ADT4
15.36 TB NVMe Flash Drive	2076	U7C	ADT5
375 GB NVMe Storage Class Memory Drive	2076	U7C	ADTA
750 GB NVMe Storage Class Memory Drive	2076	U7C	ADTB
800 GB NVMe Storage Class Memory Drive	2076	U7C	ADTE
1.6 TB NVMe Storage Class Memory Drive	2076	U7C	ADTF
TAA Designated Country	2076	U7C	ADZ1
Variable Usage 1TB/month	2076	U7C	AE00

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Variable Usage 10TB/month	2076	U7C	AE01
Variable Usage 100TB/month	2076	U7C	AE02
Shipping and Handling NC	2076	U7C	AG00
Shipping and Handling	2076	U7C	AGDA
Power Cord - PDU C20	2076	U7C	AHP6
Future use - reserved 1	2076	U7C	AHY1
Future use - reserved 2	2076	U7C	AHY2
Future use - reserved 3	2076	U7C	AHY3
Future use - reserved 4	2076	U7C	AHY4
Future use - reserved 5	2076	U7C	AHY5
Future use - reserved 6	2076	U7C	AHY6
Future use - reserved 7	2076	U7C	AHY7
Future use - reserved 8	2076	U7C	AHY8
Future use - reserved 9	2076	U7C	AHY9
VersaStack Solution Indicator	2076	U7C	AHZC
All Flash Indicator	2076	U7C	AHZD
Hybrid Flash Indicator	2076	U7C	AHZE
Red Hat OpenShift Indicator	2076	U7C	AJGH
No Ship MES	2076	U7C	AQQQ
CSC ORDER ROUTING INDICATOR - GUADALAJARA	2076	U7C	ECSM
Route to Power Manufacturing Indicator	2076	U7C	EFD0
BP Post-Sale Services	2076	U7C	SVBP
IBM Systems Lab Services Post-Sale Services	2076	U7C	SVCS
Other IBM Post- Sale Services	2076	U7C	SVNN

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## Business Partner information

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If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld<sup>(R)</sup> ID and password are required (use IBMid).

[BP Attachment for Announcement Letter 120-012](#)

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## Education support

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IBM Global Services, IT Education Services, provides education and training to support many IBM offerings. Course descriptions, training paths, and links to other IBM learning resources are available at the [IBM Skills Gateway](#).

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## Publications

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To order additional hardcopy publications for a fee or download free PDF format publications, go to the [IBM Publications Center](#) website.

IBM Knowledge Center provides you with a single point of reference where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access by going to [IBM Knowledge Center](#) for all your product information needs.

To access the IBM Publications Center Portal, go to the [IBM Publications Center](#) website.

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, which can currently be downloaded.

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## Services

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### **IBM Systems Lab Services**

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IBM Systems Lab Services offers a wide array of services available for your enterprise. It brings expertise on the latest technologies from the IBM development community and can help with your most difficult technical challenges.

IBM Systems Lab Services exists to help you successfully implement emerging technologies so as to accelerate your return on investment and improve your satisfaction with your IBM systems and solutions. Services examples include initial implementation, integration, migration, and skills transfer on IBM systems solution capabilities and recommended practices. IBM Systems Lab Services is one of the service organizations of IBM's world-renowned IBM Systems Group development labs.

For details on available services, contact your IBM representative or go to the [Lab Services](#) website.

### **Global Technology Services**

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IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an on-demand business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or go to the [IBM Global Technology Services<sup>®</sup>](#) website.

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or go to the [Resiliency Services](#) website.

Details on education offerings related to specific products can be found on the [IBM authorized training](#) website.

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## Technical information

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### Specified operating environment

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#### **Physical specifications**

- Height: 8.8 cm (3.5 in.)
- Width: 48.3 cm (19.0 in.)
- Depth: 85.0 cm (33.5 in.)
- Approximate weight:
  - Empty: 38.5 kg (84.7 lb)
  - Fully configured: 46.6 kg (102.5 lb)

To assure installability and serviceability in non-IBM industry-standard racks, review the installation planning information for any product-specific installation requirements.

#### **Standards**

This product was designed, tested, manufactured, and certified for safe operation. It complies with IEC 60950-1 and/or IEC 62368-1 and where required, to relevant national differences/deviations (NDs) to these IEC base standards. This includes, but is not limited to: EN (European Norms including all Amendments under the Low Voltage Directive), UL/CSA (North America bi-national harmonized and marked per accredited NRTL agency listings), and other such derivative certifications according to corporate determinations and latest regional publication compliance standardized requirements.

Regulatory Model ID (RMID) or Machine Type - Models (MT-Ms) may also be used to supplement identification (ID) for worldwide (WW) co-compliance filings or registrations with regulatory bodies.

#### **Operating environment**

##### **Air temperature:**

- Operating: 5°C to 35°C (41°F to 95°F) from 0 to 3048 m (0 to 10,000 ft); Above 900 m, de-rate maximum air temperature 1 degree per 300 m
- Nonoperating: 1°C to 50°C (34°F to 122°F)

##### **Relative humidity:**

- Operating: 8% - 80% noncondensing
- Nonoperating: 8% - 80% noncondensing

##### **Electrical power:**

- Voltage range: 200 - 240 V AC
- Frequency: 50 - 60 Hz
- Power: 2000 W
- Heat dissipation (BTU per hour): 6825
- Acoustical noise emission: 8.1 bels (idling), 8.1 bels (operating)

#### **Software requirements**

FlashSystem 7000 Model 824, U7C, 12G, 24G, and 92G machines require IBM Spectrum Virtualize Software V8.3.1, or later, for operation.

The 4.8 TB, 9.6 TB, and 19.2 TB FlashCore Modules (features ADS5, ADS6, ADS7) require IBM Spectrum Virtualize Software V8.2.1.6, or later for operation on the



V8.2 code stream, or IBM Spectrum Virtualize Software V8.3.0.1, or later for operation on the V8.3 code stream.

The 38.4 TB FlashCore Module (feature ADS8) requires IBM Spectrum Virtualize Software V8.3.1, or later for operation.

The 350 GB, 750 GB, 800 GB, and 1.6 TB Storage Class Memory drives (features ADTA, ADTB, ADTE, ADTF) require IBM Spectrum Virtualize Software V8.3.1, or later for operation.

FlashSystem 7200 function capabilities are provided through IBM Spectrum Virtualize software and licensed through IBM Spectrum Virtualize Software for FlashSystem 7000 (SW PID 5639-DB8) for control enclosures and IBM Spectrum Virtualize Software for FlashSystem 7000 Expansions (SW PID 5639-XD8) for expansion enclosures.

FlashSystem 7200 external virtualization capabilities are provided through IBM Spectrum Virtualize software and licensed through IBM Spectrum Virtualize Software for SAN Volume Controller (SW PID 5641-VC8 in AAS and SW PID 5725-M19 in Passport Advantage).

For additional information about FlashSystem 7000 software, see the announcement listed in the [Reference information](#) section.

### **Compatibility**

Attachment and intermixing of existing Storwize V7000 expansion enclosure models 12F, 24F, and 92F with FlashSystem 7000 expansion enclosure models 12G, 24G, and 92G is supported with FlashSystem 7200 Model 824 and Storwize V7000 Models 524, 624, and 724.

FlashSystem 7200 systems scale up to 760 drives with the attachment of FlashSystem 7000 expansions. FlashSystem 7200 systems can be clustered to help deliver greater performance, bandwidth, and scalability. A FlashSystem 7200 clustered system can contain up to four FlashSystem 7200 systems and up to 3,040 drives.

FlashSystem 7200 Model 824 systems can be added into existing clustered systems that include Storwize V7000 systems (full feature software option required), FlashSystem 9100, or FlashSystem 9200 systems.

FlashSystem 7200 functional capabilities are provided through IBM Spectrum Virtualize software and licensed through IBM Spectrum Virtualize Software for FlashSystem 7000 (SW PID 5639-DB8) for control enclosures and IBM Spectrum Virtualize Software for FlashSystem 7000 Expansions (SW PID 5639-XD8) for expansion enclosures.

FlashSystem 7200 external virtualization capabilities are provided through IBM Spectrum Virtualize software and licensed through IBM Spectrum Virtualize Software for SAN Volume Controller (SW PID 5641-VC8 in AAS and SW PID 5725-M19 in Passport Advantage).

For a comprehensive list of supported environments, devices, and configurations, go to the [IBM SSIC](#).

### **Limitations**

#### **Drive considerations**

FlashCore Modules:

- Six drive minimum
- Distributed RAID 6 (recommended), Distributed RAID5 (supported)
- FlashCore Modules in the same RAID array must be of the same capacity

Industry standard NVMe drives:

- Two drive minimum (varies by RAID type)
- Traditional RAID 10 and Distributed RAID 6 (recommended), Distributed RAID 5 (supported)
- Industry-standard NVMe drives in the same RAID array must be of the same capacity

Storage-class memory drives:

- Up to four drives of the same type and capacity
- Distributed RAID 5 or Traditional RAID 1 or 10 for less than 4 drives

### Supported memory configurations

	Cache upgrade	System memory	Total DIMMs
1	-	256 GB	8x32 GB
2	FC ACGJ	768 GB	24x32 GB
3	FC ACGJ + FC ACGB	1536 GB	48x32 GB

### Expansion enclosure attachment rules

Machine type	Model	Max. quantity of SAS chains per controller or node pair	Max. quantity of expansion enclosures per SAS chain (12G-24G / 92G)	Max. quantity of drive slots per SAS chain	Max. quantity of drive slots per system	Max. quantity of drive slots per clustered system
2076	824	2	10 / 4	368	760	3040

### 2U expansion enclosures and 5U expansion enclosure mix rules

Maximum # of drive slots per SAS expansion string	5U											
	2U	0	1	2	3	4	5	6	7	8	9	10
0	0	24	48	72	96	120	144	168	192	216	240	
1	92	116	140	164	188	212	236	260	-	-	-	
2	184	208	232	256	280	304	-	-	-	-	-	
3	276	300	324	-	-	-	-	-	-	-	-	
4	368	-	-	-	-	-	-	-	-	-	-	

**Encryption:** The Encryption Enablement feature and the Encryption USB Drive Pack feature (feature numbers ACE1 and ACEA, respectively) are not available in the following countries:

- Armenia
- Belarus
- Kazakhstan
- Kyrgyzstan
- Russia

Encryption may be subject to limitations and restrictions for supported configurations, environments, and use. See the *Configuration Limits and Restrictions for IBM FlashSystem 7200* document at the [IBM Systems Support](#) site for details.

**Shipments to India:** FlashSystem 7200 machines shipped prior to the published planned availability date for India are not compliant with India certification and product labeling requirements.

If you did not acquire your machine from IBM as a direct shipment to India, you are responsible for validating the machine has the appropriate certifications and product labels.

Contact your IBM sales representative or Business Partner for assistance with this validation.

## Planning information

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### **Client responsibilities**

Physical configuration and installation planning, along with machine installation and configuration, are customer responsibilities.

You are responsible for downloading or obtaining from IBM, and installing designated Machine Code (microcode, basic input/output system code (called BIOS), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM internet website or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

### **Cable orders**

Cables are required for the following:

- I/O connectivity to servers and fabric components
- Expansion enclosure attachment
- System management

As a convenience, a limited selection of cables can be ordered with FlashSystem 7000 machines. See the [Product number](#) section for feature numbers.

Cables, along with installation services, are also available from IBM Network Integration and Deployment Services, an IBM Global Services offering.

### **I/O connectivity cables**

Cables are required to connect the FlashSystem 7200 I/O ports to server or fabric ports.

**32/16 Gb FC and 25 Gb iSCSI:** FlashSystem 7200 requires a 50.0/125 micrometer fiber optic cable terminated with an LC Duplex connector. The following can be ordered with the FlashSystem 7200 control enclosure:

- 1-meter OM3 fiber cable (LC)
- 5-meter OM3 fiber cable (LC)
- 10-meter OM3 fiber cable (LC)
- 25-meter OM3 fiber cable (LC)

**10 Gb iSCSI (onboard):** FlashSystem 7200 onboard 10 GbE ports require Cat 6A/Class E<sub>A</sub> channel using 6a or 7 twisted pair cables. These cables are not available for ordering with the machine and must be supplied by the client.

### **Expansion enclosure attachment cables**

Cables are required to connect a FlashSystem 7000 expansion enclosure to the FlashSystem 7200 control enclosure and to another FlashSystem 7000 expansion enclosure. This requires a 12 Gb mini-SAS HD 4x cable terminated with SFF-8644 connectors. The following can be ordered with the FlashSystem 7000 expansion enclosures:

- .6-meter 12 Gb SAS cable (mSAS HD)
- 1.5-meter 12 Gb SAS cable (mSAS HD)
- 3-meter 12 Gb SAS cable (mSAS HD)
- 6-meter 12 Gb SAS cable (mSAS HD)

### **System management cables**

FlashSystem 7200 requires a Category 5 or Category 5E Ethernet cable terminated with an 8P8C modular connector (RJ45 compatible connector). This cable is not available for ordering with the machine and must be supplied by the client.

### **Direct client support**

Technical support information is available at the [IBM Support Portal](#).

You may also contact your IBM representative.

### **Security, auditability, and control**

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This product uses the security and auditability features of the preloaded application software.

The client is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

### **IBM Systems Lab Services**

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For details on available services, contact your IBM representative or go to the [Lab Services](#) website.

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## **Terms and conditions**

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### **Volume orders**

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Contact your IBM representative.

### **IBM Global Financing**

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Yes

### **Products - terms and conditions**

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#### **Warranty period**

<b>Warranty and additional coverage options</b>	<b>Coverage summary<sup>1</sup></b>
Warranty period:	Three year of standard warranty
Service level:	IBM CRU and On-Site Limited, 9x5 Next Business Day
<b>Service upgrade options</b>	
Warranty Service upgrade	IBM CRU and On-Site Repair, 9x5 Same Day <sup>2</sup> and 24x7 Same Day options

<b>Warranty and additional coverage options</b>	<b>Coverage summary<sup>1</sup></b>
Maintenance services (Post-warranty)	IBM On-Site Repair, Next Business Day and Same Day options
IBM Hardware Maintenance Services - Committed maintenance <sup>3</sup>	Yes

<sup>1</sup> See complete coverage details below

<sup>2</sup> Only offered in US and EMEA

<sup>3</sup> Not offered in the US

To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or IBM. An IBM part or feature installed during the initial installation of an IBM machine is subject to the full warranty period specified by IBM. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

### **Warranty service**

If required, IBM provides repair or exchange service depending on the types of warranty service specified for the machine. IBM will attempt to resolve your problem over the telephone, or electronically through an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. If applicable to your product, parts considered Customer Replaceable Units (CRUs) will be provided as part of the machine's standard warranty service.

Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country-specific and location-specific information.

### **CRU Service**

IBM provides replacement CRUs to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request. CRUs are designated as being either a Tier 1 (mandatory) or a Tier 2 (optional) CRU.

#### **Tier 1 (mandatory) CRU**

Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

#### **Tier 2 (optional) CRU**

You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

Based upon availability, CRUs will be shipped for next-business-day (NBD) delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU. You may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

The following parts have been designated as Tier 1 CRUs:

- Battery
- Bezel
- Canister
- DIMM
- Drive
- Fan
- Filler panel
- I/O adapter
- I/O cable
- I/O transceiver
- Power cord
- Power supply unit

### ***CRU and On-site Service***

At IBM's discretion, you will receive specified CRU service, or IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

Service level is:

- IBM On-site Repair Limited, Next-Business-Day Onsite Response Time, Latest Call Registration 15:00, 9 hours per day, Monday through Friday, excluding public or national holidays.

### **Warranty service**

IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-IBM parts as an accommodation to their customers, and normal warranty service procedures for the IBM machine apply.

### ***International Warranty Service***

International Warranty Service allows you to relocate any machine that is eligible for International Warranty Service and receive continued warranty service in any country where the IBM machine is serviced. If you move your machine to a different country, you are required to report the machine information to your Business Partner or IBM representative.

The warranty service type and the service level provided in the servicing country may be different from that provided in the country in which the machine was purchased. Warranty service will be provided with the prevailing warranty service type and service level available for the eligible machine type in the servicing country, and the warranty period observed will be that of the country in which the machine was purchased.

The following types of information can be found on the [International Warranty Service](#) website

- Machine warranty entitlement and eligibility
- Directory of contacts by country with technical support contact information
- Announcement Letters

### ***Warranty service upgrades***

During the warranty period, warranty service upgrades provide an enhanced level of On-site Service for an additional charge. Service levels are response-time objectives and are not guaranteed. See the Warranty services section for additional details.

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

### ***Maintenance service options***

#### ***Maintenance services***

If required, IBM provides repair or exchange service depending on the types of maintenance service specified for the machine. IBM will attempt to resolve your problem over the telephone or electronically, via an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed. The specified level of maintenance service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country-specific and location-specific information. The following service selections are available as maintenance options for your machine type.

#### ***On-site Service***

IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

Service levels are:

- On-Site Repair, Monday through Friday (excluding holidays), 8am to 5pm, next business day.
- On-Site Repair, Monday through Friday (excluding holidays), 8am to 5pm, 4 hour response objective. Response times are objectives and are not guaranteed.
- On-Site Repair, 7 days a week, 24hrs/day.
- On-Site Repair, 7 days a week, 24hrs/day, 2 hour response objective. Response times are objectives and are not guaranteed.

#### ***Customer Replaceable Unit (CRU) Service***

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), and depending upon the maintenance service offerings in your geography, IBM will ship the replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request.

Based upon availability, CRUs will be shipped for next business day delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, 1) return instructions and a container are shipped with the replacement CRU, and 2) you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

CRUs may be provided as part of the machine's standard maintenance service except that you may install a CRU yourself or request IBM installation, at no additional charge, under any of the On-site Service levels specified above.

CRUs are designated as being either a Tier 1 (mandatory) or a Tier 2 (optional) CRU.

Tier 1 (mandatory) CRUs: Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

For machines with On-site Same-day Response Service, IBM will replace a Tier 1 CRU part at your request, at no additional charge.

Tier 2 (optional) CRUs: You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

The following parts and feature(s) have been designated as Tier 1 CRUs:

- Battery
- Bezel
- Canister
- DIMM
- Drive
- Fan
- Filler panel
- I/O adapter
- I/O cable
- I/O transceiver
- Power cord
- Power supply unit

Models and feature codes for which there is a maintenance charge:

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature number</b>
FlashSystem 7200 Control	2076	824	
FlashSystem 7200 Utility Model	2076	U7C	
FS 7000 LFF Expansion	2076	12G	
FS 7000 SFF Expansion	2076	24G	
FS 7000 HD LFF Expansion	2076	92G	
4.8TB NVMe FCM	2076	824	ADS5
9.6TB NVMe FCM	2076	824	ADS6
19.2TB NVMe FCM	2076	824	ADS7
38.4TB NVMe FCM	2076	824	ADS8
800GB NVMe Flash Drive	2076	824	ADT1
1.92TB NVMe Flash Drive	2076	824	ADT2
3.84TB NVMe Flash Drive	2076	824	ADT3
7.68TB NVMe Flash Drive	2076	824	ADT4
15.36TB NVMe Flash Drive	2076	824	ADT5
375GB NVMe SCM Drive	2076	824	ADTA



<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature number</b>
750GB NVMe SCM Drive	2076	824	ADTB
800GB NVMe SCM Drive	2076	824	ADTE
1.6TB NVMe SCM Drive	2076	824	ADTF
4.8TB NVMe FCM	2076	U7C	ADS5
9.6TB NVMe FCM	2076	U7C	ADS6
19.2TB NVMe FCM	2076	U7C	ADS7
38.4TB NVMe FCM	2076	U7C	ADS8
800GB NVMe Flash Drive	2076	U7C	ADT1
1.92TB NVMe Flash Drive	2076	U7C	ADT2
3.84TB NVMe Flash Drive	2076	U7C	ADT3
7.68TB NVMe Flash Drive	2076	U7C	ADT4
15.36TB NVMe Flash Drive	2076	U7C	ADT5
375GB NVMe SCM Drive	2076	U7C	ADTA
750GB NVMe SCM Drive	2076	U7C	ADTB
800GB NVMe SCM Drive	2076	U7C	ADTE
1.6TB NVMe SCM Drive	2076	U7C	ADTF
400GB 2.5 Inch Flash Drive	2076	24G	AHH2
800GB 2.5 Inch Flash Drive	2076	24G	AHH3
1.6TB 2.5 Inch Flash Drive	2076	24G	AHH4
3.2TB 2.5 Inch Flash Drive	2076	24G	AHH5
800GB 3DWPD 2.5" Flash Drive	2076	24G	AHH9
1.92TB 2.5" Flash Drive	2076	24G	AHHG
3.84TB 2.5" Flash Drive	2076	24G	AHHH
7.68TB 2.5" Flash Drive	2076	24G	AHHJ
15.36TB 2.5" Flash Drive	2076	24G	AHHK
30.72TB 2.5" Flash Drive	2076	24G	AHHL
1.6TB 3.5 Inch Flash Drive	2076	92G	AH7D
3.2TB 3.5 Inch Flash Drive	2076	92G	AH7E
1.92TB 3.5" Flash Drive	2076	92G	AH7J
3.84TB 3.5" Flash Drive	2076	92G	AH7K
7.68TB 3.5" Flash Drive	2076	92G	AH7L
15.36TB 3.5" Flash Drive	2076	92G	AH7M
30.72TB 3.5" Flash Drive	2076	92G	AH7N

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature number</b>
4.8TB NVMe FCM	2076	724	ADS5
9.6TB NVMe FCM	2076	724	ADS6
19.2TB NVMe FCM	2076	724	ADS7
38.4TB NVMe FCM	2076	724	ADS8
375GB NVMe SCM Drive	2076	724	ADTA
750GB NVMe SCM Drive	2076	724	ADTB
800GB NVMe SCM Drive	2076	724	ADTE
1.6TB NVMe SCM Drive	2076	724	ADTF
4.8TB NVMe FCM	2076	U7B	ADS5
9.6TB NVMe FCM	2076	U7B	ADS6
19.2TB NVMe FCM	2076	U7B	ADS7
38.4TB NVMe FCM	2076	U7B	ADS8
375GB NVMe SCM Drive	2076	U7B	ADTA
750GB NVMe SCM Drive	2076	U7B	ADTB
800GB NVMe SCM Drive	2076	U7B	ADTE
1.6TB NVMe SCM Drive	2076	U7B	ADTF

### ***Non-IBM parts service***

Under certain conditions, IBM provides services for selected non-IBM parts at no additional charge for machines that are covered under warranty service upgrades or maintenance services.

This service includes hardware problem determination (PD) on the non-IBM parts (for example, adapter cards, PCMCIA cards, disk drives, memory) installed within IBM machines and provides the labor to replace the failing parts at no additional charge.

If IBM has a Technical Service Agreement with the manufacturer of the failing part, or if the failing part is an accommodations part (a part with an IBM FRU label), IBM may also source and replace the failing part at no additional charge. For all other non-IBM parts, customers are responsible for sourcing the parts. Installation labor is provided at no additional charge, if the machine is covered under a warranty service upgrade or a maintenance service.

### ***Usage plan machine***

No

### ***IBM hourly service rate classification***

Two

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

### ***General terms and conditions***

#### ***Field-installable features***

Yes

#### ***Model conversions***

No

### **Machine installation**

Client setup. Clients are responsible for installation according to the instructions IBM provides with the machine.

### **Graduated program license charges apply**

No

### **Licensed Internal Code and Licensed Machine Code**

This product does not contain Licensed Internal Code or Licensed Machine Code.

### **Educational allowance**

A reduced charge is available to qualified education clients. The educational allowance may not be added to any other discount or allowance.

The educational allowance is 15% for the products in this announcement.

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## **Prices**

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For additional information and current prices, contact your local IBM representative or IBM Business Partner.

The following are newly announced features and models on the specified models of the IBM System Storage 2076 machine type:

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
FlashSystem 7200 Agility Model			Both	Yes	
FS 7000 SFF Expansion	24G		Both	Yes	
FS 7000 HD LFF Expansion	92G		Both	Yes	
FS 7000 LFF Expansion	12G		Both	Yes	
FlashSystem 7200 Control	824		Both	Yes	
FlashSystem Expansion Bezel	12F	ACZM	MES	Yes	No
JEMT Indicator	12G	0021	Initial	Yes	No
TAA Compliance	12G	0983	Initial	Yes	No
Rack Indicator None	12G	4650	Initial	Yes	No
Rack Indicator Rack 1	12G	4651	Initial	Yes	No
Rack Indicator Rack 2	12G	4652	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Rack Indicator Rack 3	12G	4653	Initial	Yes	No
Rack Indicator Rack 4	12G	4654	Initial	Yes	No
Rack Indicator Rack 5	12G	4655	Initial	Yes	No
Rack Indicator Rack 6	12G	4656	Initial	Yes	No
Rack Indicator Rack 7	12G	4657	Initial	Yes	No
Rack Indicator Rack 8	12G	4658	Initial	Yes	No
Rack Indicator Rack 9	12G	4659	Initial	Yes	No
Rack Indicator Rack 10	12G	4660	Initial	Yes	No
Rack Indicator Rack 11	12G	4661	Initial	Yes	No
Rack Indicator Rack 12	12G	4662	Initial	Yes	No
Rack Indicator Rack 13	12G	4663	Initial	Yes	No
Rack Indicator Rack 14	12G	4664	Initial	Yes	No
Rack Indicator Rack 15	12G	4665	Initial	Yes	No
Rack Indicator Rack 16	12G	4666	Initial	Yes	No
Bulk Order Indicator	12G	5555	MES	Yes	No
Storage Subsystem ID 1	12G	9170	Initial	Yes	No
Storage Subsystem ID 2	12G	9171	Initial	Yes	No
Storage Subsystem ID 3	12G	9172	Initial	Yes	No
Storage Subsystem ID 4	12G	9173	Initial	Yes	No
Storage Subsystem ID 5	12G	9174	Initial	Yes	No
Storage Subsystem ID 6	12G	9175	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Storage Subsystem ID 7	12G	9176	Initial	Yes	No
Storage Subsystem ID 8	12G	9177	Initial	Yes	No
Storage Subsystem ID 9	12G	9178	Initial	Yes	No
Storage Subsystem ID 10	12G	9179	Initial	Yes	No
Storage Subsystem ID 11	12G	9180	Initial	Yes	No
Storage Subsystem ID 12	12G	9181	Initial	Yes	No
Storage Subsystem ID 13	12G	9182	Initial	Yes	No
Storage Subsystem ID 14	12G	9183	Initial	Yes	No
Storage Subsystem ID 15	12G	9184	Initial	Yes	No
Storage Subsystem ID 16	12G	9185	Initial	Yes	No
Storage Subsystem ID 17	12G	9186	Initial	Yes	No
Storage Subsystem ID 18	12G	9187	Initial	Yes	No
Storage Subsystem ID 19	12G	9188	Initial	Yes	No
Storage Subsystem ID 20	12G	9189	Initial	Yes	No
Power Cord - EMEA	12G	9716	Both	Yes	No
Power Cord - Australia / New Zealand	12G	9717	Both	Yes	No
Power Cord - Europe / Africa	12G	9718	Both	Yes	No
Power Cord - Denmark	12G	9719	Both	Yes	No
Power Cord - South Africa	12G	9720	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Power Cord - Switzerland	12G	9721	Both	Yes	No
Power Cord - Chile / Italy	12G	9722	Both	Yes	No
Power Cord - Israel	12G	9723	Both	Yes	No
Power Cord - Argentina	12G	9725	Both	Yes	No
Power Cord - China	12G	9726	Both	Yes	No
Power Cord - PDU Connection	12G	9730	Both	Yes	No
Power Cord - US/ Group 1	12G	9731	Both	Yes	No
Power Cord - Taiwan	12G	9732	Both	Yes	No
Power Cord - Brazil	12G	9733	Both	Yes	No
Power Cord - India	12G	9734	Both	Yes	No
Power Cord - Japan	12G	9735	Both	Yes	No
Power Cord - Korea	12G	9736	Both	Yes	No
Power Cord - Chicago	12G	9737	Both	Yes	No
RFID AG/AP: 902-928 MHz	12G	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	12G	A2EW	Initial	Yes	No
0.6m 12 Gb SAS Cable (mSAS HD)	12G	ACUA	Both	Yes	No
1.5m 12 Gb SAS Cable (mSAS HD)	12G	ACUB	Both	Yes	No
3m 12 Gb SAS Cable (mSAS HD)	12G	ACUC	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
6m 12 Gb SAS Cable (mSAS HD)	12G	ACUD	Both	Yes	No
OEM 1 FC Order Indicator	12G	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	12G	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	12G	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	12G	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	12G	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	12G	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	12G	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	12G	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	12G	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	12G	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	12G	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	12G	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	12G	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	12G	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	12G	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	12G	ACY1	Both	Yes	No
OEM 2 MTM Order Indicator	12G	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	12G	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	12G	ACY4	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
OEM 5 MTM Order Indicator	12G	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	12G	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	12G	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	12G	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	12G	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	12G	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	12G	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	12G	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	12G	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	12G	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	12G	ACYF	Initial	Yes	No
Generic Bezel	12G	ACZA	Initial	Yes	No
Generic Packaging	12G	ACZF	Initial	Yes	No
Storwize Expansion Bezel	12G	ACZK	MES	Yes	No
Order Type 1 Indicator - CTO	12G	ADN1	Initial	Yes	No
Order Type 2 Indicator - MTM Only	12G	ADN2	Initial	Yes	No
Order Type 3 Indicator - FC Only	12G	ADN3	MES	Yes	No
TAA Designated Country	12G	ADZ1	Initial	Yes	No
Shipping and Handling NC	12G	AG00	Initial	Yes	No
Shipping and Handling	12G	AGDA	Initial	Yes	No
4TB 7.2K 3.5 Inch NL HDD	12G	AHD3	Both	Yes	No



<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
6TB 7.2K 3.5 Inch HDD	12G	AHD4	Both	Yes	No
8TB 7.2K 3.5 Inch NL HDD	12G	AHD5	Both	Yes	No
10TB 7.2K 3.5 Inch NL HDD	12G	AHD6	Both	Yes	No
12TB 7.2K 3.5 Inch NL HDD	12G	AHD7	Both	Yes	No
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	12G	AHD8	Both	Yes	No
Power Cord - PDU C20	12G	AHP6	Both	Yes	No
Future use - reserved 1	12G	AHY1	Initial	Yes	No
Future use - reserved 2	12G	AHY2	Initial	Yes	No
Future use - reserved 3	12G	AHY3	Initial	Yes	No
Future use - reserved 4	12G	AHY4	Initial	Yes	No
Future use - reserved 5	12G	AHY5	Initial	Yes	No
Future use - reserved 6	12G	AHY6	Initial	Yes	No
Future use - reserved 7	12G	AHY7	Initial	Yes	No
Future use - reserved 8	12G	AHY8	Initial	Yes	No
Future use - reserved 9	12G	AHY9	Initial	Yes	No
VersaStack Solution Indicator	12G	AHZC	Initial	Yes	No
Hybrid Flash Indicator	12G	AHZE	Initial	Yes	No
CSC ORDER ROUTING INDICATOR - GUADALAJARA	12G	ECSM	Both	Yes	No
Route to Power Manufacturing Indicator	12G	EFD0	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
BP Post-Sale Services	12G	SVBP	Both	Yes	No
IBM Systems Lab Services Post-Sale Services	12G	SVCS	Both	Yes	No
Other IBM Post-Sale Services	12G	SVNN	Both	Yes	No
FlashSystem Expansion Bezel	24F	ACZM	MES	Yes	No
JEMT Indicator	24G	0021	Initial	Yes	No
TAA Compliance	24G	0983	Initial	Yes	No
Rack Indicator None	24G	4650	Initial	Yes	No
Rack Indicator Rack 1	24G	4651	Initial	Yes	No
Rack Indicator Rack 2	24G	4652	Initial	Yes	No
Rack Indicator Rack 3	24G	4653	Initial	Yes	No
Rack Indicator Rack 4	24G	4654	Initial	Yes	No
Rack Indicator Rack 5	24G	4655	Initial	Yes	No
Rack Indicator Rack 6	24G	4656	Initial	Yes	No
Rack Indicator Rack 7	24G	4657	Initial	Yes	No
Rack Indicator Rack 8	24G	4658	Initial	Yes	No
Rack Indicator Rack 9	24G	4659	Initial	Yes	No
Rack Indicator Rack 10	24G	4660	Initial	Yes	No
Rack Indicator Rack 11	24G	4661	Initial	Yes	No
Rack Indicator Rack 12	24G	4662	Initial	Yes	No
Rack Indicator Rack 13	24G	4663	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Rack Indicator Rack 14	24G	4664	Initial	Yes	No
Rack Indicator Rack 15	24G	4665	Initial	Yes	No
Rack Indicator Rack 16	24G	4666	Initial	Yes	No
Bulk Order Indicator	24G	5555	MES	Yes	No
Storage Subsystem ID 1	24G	9170	Initial	Yes	No
Storage Subsystem ID 2	24G	9171	Initial	Yes	No
Storage Subsystem ID 3	24G	9172	Initial	Yes	No
Storage Subsystem ID 4	24G	9173	Initial	Yes	No
Storage Subsystem ID 5	24G	9174	Initial	Yes	No
Storage Subsystem ID 6	24G	9175	Initial	Yes	No
Storage Subsystem ID 7	24G	9176	Initial	Yes	No
Storage Subsystem ID 8	24G	9177	Initial	Yes	No
Storage Subsystem ID 9	24G	9178	Initial	Yes	No
Storage Subsystem ID 10	24G	9179	Initial	Yes	No
Storage Subsystem ID 11	24G	9180	Initial	Yes	No
Storage Subsystem ID 12	24G	9181	Initial	Yes	No
Storage Subsystem ID 13	24G	9182	Initial	Yes	No
Storage Subsystem ID 14	24G	9183	Initial	Yes	No
Storage Subsystem ID 15	24G	9184	Initial	Yes	No
Storage Subsystem ID 16	24G	9185	Initial	Yes	No
Storage Subsystem ID 17	24G	9186	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Storage Subsystem ID 18	24G	9187	Initial	Yes	No
Storage Subsystem ID 19	24G	9188	Initial	Yes	No
Storage Subsystem ID 20	24G	9189	Initial	Yes	No
Power Cord - EMEA	24G	9716	Both	Yes	No
Power Cord - Australia / New Zealand	24G	9717	Both	Yes	No
Power Cord - Europe / Africa	24G	9718	Both	Yes	No
Power Cord - Denmark	24G	9719	Both	Yes	No
Power Cord - South Africa	24G	9720	Both	Yes	No
Power Cord - Switzerland	24G	9721	Both	Yes	No
Power Cord - Chile / Italy	24G	9722	Both	Yes	No
Power Cord - Israel	24G	9723	Both	Yes	No
Power Cord - Argentina	24G	9725	Both	Yes	No
Power Cord - China	24G	9726	Both	Yes	No
Power Cord - PDU Connection	24G	9730	Both	Yes	No
Power Cord - US/ Group 1	24G	9731	Both	Yes	No
Power Cord - Taiwan	24G	9732	Both	Yes	No
Power Cord - Brazil	24G	9733	Both	Yes	No
Power Cord - India	24G	9734	Both	Yes	No
Power Cord - Japan	24G	9735	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Power Cord - Korea	24G	9736	Both	Yes	No
Power Cord - Chicago	24G	9737	Both	Yes	No
RFID AG/AP: 902-928 MHz	24G	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	24G	A2EW	Initial	Yes	No
0.6m 12 Gb SAS Cable (mSAS HD)	24G	ACUA	Both	Yes	No
1.5m 12 Gb SAS Cable (mSAS HD)	24G	ACUB	Both	Yes	No
3m 12 Gb SAS Cable (mSAS HD)	24G	ACUC	Both	Yes	No
6m 12 Gb SAS Cable (mSAS HD)	24G	ACUD	Both	Yes	No
OEM 1 FC Order Indicator	24G	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	24G	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	24G	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	24G	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	24G	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	24G	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	24G	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	24G	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	24G	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	24G	ACWA	MES	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
OEM 11 FC Order Indicator	24G	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	24G	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	24G	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	24G	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	24G	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	24G	ACY1	Both	Yes	No
OEM 2 MTM Order Indicator	24G	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	24G	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	24G	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	24G	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	24G	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	24G	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	24G	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	24G	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	24G	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	24G	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	24G	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	24G	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	24G	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	24G	ACYF	Initial	Yes	No
Generic Bezel	24G	ACZA	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Generic Packaging	24G	ACZF	Initial	Yes	No
Storwize Expansion Bezel	24G	ACZK	MES	Yes	No
Order Type 1 Indicator - CTO	24G	ADN1	Initial	Yes	No
Order Type 2 Indicator - MTM Only	24G	ADN2	Initial	Yes	No
Order Type 3 Indicator - FC Only	24G	ADN3	MES	Yes	No
TAA Designated Country	24G	ADZ1	Initial	Yes	No
Shipping and Handling NC	24G	AG00	Initial	Yes	No
Shipping and Handling	24G	AGDA	Initial	Yes	No
900GB 10K 2.5 Inch HDD	24G	AHF2	Both	Yes	No
1.2TB 10K 2.5 Inch HDD	24G	AHF3	Both	Yes	No
1.8TB 10K 2.5 Inch HDD	24G	AHF4	Both	Yes	No
2.4TB 10K 2.5 Inch HDD	24G	AHF5	Both	Yes	No
2TB 7.2K 2.5 Inch NL HDD	24G	AHG2	Both	Yes	No
400GB 2.5 Inch Flash Drive	24G	AHH2	Both	Yes	No
800GB 2.5 Inch Flash Drive	24G	AHH3	Both	Yes	No
1.6TB 2.5 Inch Flash Drive	24G	AHH4	Both	Yes	No
3.2TB 2.5 Inch Flash Drive	24G	AHH5	Both	Yes	No
800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive	24G	AHH9	Both	Yes	No
1.92TB 12 Gb SAS 2.5 Inch Flash Drive	24G	AHHG	Both	Yes	No
3.84TB 12 Gb SAS	24G	AHHH	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
2.5 Inch Flash Drive					
7.68TB 12 Gb SAS 2.5 Inch Flash Drive	24G	AHHJ	Both	Yes	No
15.36TB 12 Gb SAS 2.5 Inch Flash Drive	24G	AHHK	Both	Yes	No
30.72 TB 12 Gb SAS 2.5 Inch Flash Drive	24G	AHHL	Both	Yes	No
Power Cord - PDU C20	24G	AHP6	Both	Yes	No
Future use - reserved 1	24G	AHY1	Initial	Yes	No
Future use - reserved 2	24G	AHY2	Initial	Yes	No
Future use - reserved 3	24G	AHY3	Initial	Yes	No
Future use - reserved 4	24G	AHY4	Initial	Yes	No
Future use - reserved 5	24G	AHY5	Initial	Yes	No
Future use - reserved 6	24G	AHY6	Initial	Yes	No
Future use - reserved 7	24G	AHY7	Initial	Yes	No
Future use - reserved 8	24G	AHY8	Initial	Yes	No
Future use - reserved 9	24G	AHY9	Initial	Yes	No
VersaStack Solution Indicator	24G	AHZC	Initial	Yes	No
All Flash Indicator	24G	AHZD	Initial	Yes	No
Hybrid Flash Indicator	24G	AHZE	Initial	Yes	No
CSC ORDER ROUTING INDICATOR - GUADALAJARA	24G	ECSM	Both	Yes	No
Route to Power Manufacturing Indicator	24G	EFD0	Initial	Yes	No



<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
BP Post-Sale Services	24G	SVBP	Both	Yes	No
IBM Systems Lab Services Post-Sale Services	24G	SVCS	Both	Yes	No
Other IBM Post-Sale Services	24G	SVNN	Both	Yes	No
4.8 TB NVMe FlashCore Module	724	ADS5	Both	Yes	No
9.6 TB NVMe FlashCore Module	724	ADS6	Both	Yes	No
19.2 TB NVMe FlashCore Module	724	ADS7	Both	Yes	No
38.4 TB NVMe FlashCore Module	724	ADS8	Both	Yes	No
375 GB NVMe Storage Class Memory Drive	724	ADTA	Both	Yes	No
750 GB NVMe Storage Class Memory Drive	724	ADTB	Both	Yes	No
800 GB NVMe Storage Class Memory Drive	724	ADTE	Both	Yes	No
1.6 TB NVMe Storage Class Memory Drive	724	ADTF	Both	Yes	No
JEMT Indicator	824	0021	Initial	Yes	No
TAA Compliance	824	0983	Initial	Yes	No
Rack Indicator None	824	4650	Initial	Yes	No
Rack Indicator Rack 1	824	4651	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Rack Indicator Rack 2	824	4652	Initial	Yes	No
Rack Indicator Rack 3	824	4653	Initial	Yes	No
Rack Indicator Rack 4	824	4654	Initial	Yes	No
Rack Indicator Rack 5	824	4655	Initial	Yes	No
Rack Indicator Rack 6	824	4656	Initial	Yes	No
Rack Indicator Rack 7	824	4657	Initial	Yes	No
Rack Indicator Rack 8	824	4658	Initial	Yes	No
Rack Indicator Rack 9	824	4659	Initial	Yes	No
Rack Indicator Rack 10	824	4660	Initial	Yes	No
Rack Indicator Rack 11	824	4661	Initial	Yes	No
Rack Indicator Rack 12	824	4662	Initial	Yes	No
Rack Indicator Rack 13	824	4663	Initial	Yes	No
Rack Indicator Rack 14	824	4664	Initial	Yes	No
Rack Indicator Rack 15	824	4665	Initial	Yes	No
Rack Indicator Rack 16	824	4666	Initial	Yes	No
Bulk Order Indicator	824	5555	MES	Yes	No
Storage Subsystem ID 1	824	9170	Initial	Yes	No
Storage Subsystem ID 2	824	9171	Initial	Yes	No
Storage Subsystem ID 3	824	9172	Initial	Yes	No
Storage Subsystem ID 4	824	9173	Initial	Yes	No
Storage Subsystem ID 5	824	9174	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Storage Subsystem ID 6	824	9175	Initial	Yes	No
Storage Subsystem ID 7	824	9176	Initial	Yes	No
Storage Subsystem ID 8	824	9177	Initial	Yes	No
Storage Subsystem ID 9	824	9178	Initial	Yes	No
Storage Subsystem ID 10	824	9179	Initial	Yes	No
Storage Subsystem ID 11	824	9180	Initial	Yes	No
Storage Subsystem ID 12	824	9181	Initial	Yes	No
Storage Subsystem ID 13	824	9182	Initial	Yes	No
Storage Subsystem ID 14	824	9183	Initial	Yes	No
Storage Subsystem ID 15	824	9184	Initial	Yes	No
Storage Subsystem ID 16	824	9185	Initial	Yes	No
Storage Subsystem ID 17	824	9186	Initial	Yes	No
Storage Subsystem ID 18	824	9187	Initial	Yes	No
Storage Subsystem ID 19	824	9188	Initial	Yes	No
Storage Subsystem ID 20	824	9189	Initial	Yes	No
Power Cord - EMEA	824	9716	Both	Yes	No
Power Cord - Australia / New Zealand	824	9717	Both	Yes	No
Power Cord - Europe / Africa	824	9718	Both	Yes	No
Power Cord - Denmark	824	9719	Both	Yes	No
Power Cord -	824	9720	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
South Africa					
Power Cord - Switzerland	824	9721	Both	Yes	No
Power Cord - Chile / Italy	824	9722	Both	Yes	No
Power Cord - Israel	824	9723	Both	Yes	No
Power Cord - Argentina	824	9725	Both	Yes	No
Power Cord - China	824	9726	Both	Yes	No
Power Cord - PDU Connection	824	9730	Both	Yes	No
Power Cord - Brazil	824	9733	Both	Yes	No
Power Cord - India	824	9734	Both	Yes	No
Power Cord - Korea	824	9736	Both	Yes	No
RFID AG/AP: 902-928 MHz	824	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	824	A2EW	Initial	Yes	No
Encryption Enablement	824	ACE1	Both	Yes	No
Encryption USB Drive Pack	824	ACEA	Both	Yes	No
768 GB Cache upgrade	824	ACGB	Both	Yes	No
512 GB Cache upgrade	824	ACGJ	Both	Yes	No
240 GB M.2 Boot drive Pair	824	ACGV	Initial	Yes	No
16 Gb FC LW SFP Transceivers(1'pair)	824	ACHU	Both	Yes	No
32 Gb FC LW SFP Transceivers (Pair)	824	ACHV	Both	Yes	No
1m OM3 Fiber Cable (LC)	824	ACSQ	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
5m OM3 Fiber Cable (LC)	824	ACSR	Both	Yes	No
10m OM3 Fiber Cable (LC)	824	ACSS	Both	Yes	No
25m OM3 Fiber Cable (LC)	824	ACST	Both	Yes	No
OEM 1 FC Order Indicator	824	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	824	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	824	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	824	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	824	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	824	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	824	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	824	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	824	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	824	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	824	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	824	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	824	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	824	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	824	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	824	ACY1	Both	Yes	No
OEM 2 MTM Order Indicator	824	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	824	ACY3	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
OEM 4 MTM Order Indicator	824	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	824	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	824	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	824	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	824	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	824	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	824	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	824	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	824	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	824	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	824	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	824	ACYF	Initial	Yes	No
Generic Bezel	824	ACZA	Initial	Yes	No
Generic Packaging	824	ACZF	Initial	Yes	No
16 Gb FC 4 Port Adapter Cards (Pair)	824	ADB3	Both	Yes	No
32 Gb FC 4 Port Adapter Cards (Pair)	824	ADB4	Both	Yes	No
25GbE (RoCE) Adapter Cards (Pair)	824	ADB6	Both	Yes	No
25GbE (iWARP) Adapter Cards (Pair)	824	ADB7	Both	Yes	No
SAS Enclosure	824	ADBA	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Attach Card Pair					
Order Type 1 Indicator - CTO	824	ADN1	Initial	Yes	No
Order Type 2 Indicator - MTM Only	824	ADN2	Initial	Yes	No
Order Type 3 Indicator - FC Only	824	ADN3	MES	Yes	No
No Rules Order Indicator	824	ADNR	Both	Yes	No
4.8 TB NVMe FlashCore Module	824	ADS5	Both	Yes	No
9.6 TB NVMe FlashCore Module	824	ADS6	Both	Yes	No
19.2 TB NVMe FlashCore Module	824	ADS7	Both	Yes	No
38.4 TB NVMe FlashCore Module	824	ADS8	Both	Yes	No
800 GB NVMe Flash Drive	824	ADT1	Both	Yes	No
1.92 TB NVMe Flash Drive	824	ADT2	Both	Yes	No
3.84 TB NVMe Flash Drive	824	ADT3	Both	Yes	No
7.68 TB NVMe Flash Drive	824	ADT4	Both	Yes	No
15.36 TB NVMe Flash Drive	824	ADT5	Both	Yes	No
375 GB NVMe Storage Class Memory Drive	824	ADTA	Both	Yes	No
750 GB NVMe Storage Class Memory Drive	824	ADTB	Both	Yes	No
800 GB NVMe Storage Class Memory Drive	824	ADTE	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
1.6 TB NVMe Storage Class Memory Drive	824	ADTF	Both	Yes	No
TAA Designated Country	824	ADZ1	Initial	Yes	No
Shipping and Handling NC	824	AG00	Initial	Yes	No
Shipping and Handling	824	AGDA	Initial	Yes	No
Power Cord - PDU C20	824	AHP6	Both	Yes	No
Future use - reserved 1	824	AHY1	Initial	Yes	No
Future use - reserved 2	824	AHY2	Initial	Yes	No
Future use - reserved 3	824	AHY3	Initial	Yes	No
Future use - reserved 4	824	AHY4	Initial	Yes	No
Future use - reserved 5	824	AHY5	Initial	Yes	No
Future use - reserved 6	824	AHY6	Initial	Yes	No
Future use - reserved 7	824	AHY7	Initial	Yes	No
Future use - reserved 8	824	AHY8	Initial	Yes	No
Future use - reserved 9	824	AHY9	Initial	Yes	No
VersaStack Solution Indicator	824	AHZC	Initial	Yes	No
All Flash Indicator	824	AHZD	Initial	Yes	No
Hybrid Flash Indicator	824	AHZE	Initial	Yes	No
Red Hat OpenShift Indicator	824	AJGH	Initial	Yes	No
CSC ORDER ROUTING INDICATOR - GUADALAJARA	824	ECSM	Both	Yes	No



<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Route to Power Manufacturing Indicator	824	EFD0	Initial	Yes	No
BP Post-Sale Services	824	SVBP	Both	Yes	No
IBM Systems Lab Services Post-Sale Services	824	SVCS	Both	Yes	No
Other IBM Post-Sale Services	824	SVNN	Both	Yes	No
FlashSystem Expansion Bezel	92F	ACZM	MES	Yes	No
JEMT Indicator	92G	0021	Initial	Yes	No
TAA Compliance	92G	0983	Initial	Yes	No
Rack Indicator None	92G	4650	Initial	Yes	No
Rack Indicator Rack 1	92G	4651	Initial	Yes	No
Rack Indicator Rack 2	92G	4652	Initial	Yes	No
Rack Indicator Rack 3	92G	4653	Initial	Yes	No
Rack Indicator Rack 4	92G	4654	Initial	Yes	No
Rack Indicator Rack 5	92G	4655	Initial	Yes	No
Rack Indicator Rack 6	92G	4656	Initial	Yes	No
Rack Indicator Rack 7	92G	4657	Initial	Yes	No
Rack Indicator Rack 8	92G	4658	Initial	Yes	No
Rack Indicator Rack 9	92G	4659	Initial	Yes	No
Rack Indicator Rack 10	92G	4660	Initial	Yes	No
Rack Indicator Rack 11	92G	4661	Initial	Yes	No
Rack Indicator Rack 12	92G	4662	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Rack Indicator Rack 13	92G	4663	Initial	Yes	No
Rack Indicator Rack 14	92G	4664	Initial	Yes	No
Rack Indicator Rack 15	92G	4665	Initial	Yes	No
Rack Indicator Rack 16	92G	4666	Initial	Yes	No
Bulk Order Indicator	92G	5555	MES	Yes	No
Storage Subsystem ID 1	92G	9170	Initial	Yes	No
Storage Subsystem ID 2	92G	9171	Initial	Yes	No
Storage Subsystem ID 3	92G	9172	Initial	Yes	No
Storage Subsystem ID 4	92G	9173	Initial	Yes	No
Storage Subsystem ID 5	92G	9174	Initial	Yes	No
Storage Subsystem ID 6	92G	9175	Initial	Yes	No
Storage Subsystem ID 7	92G	9176	Initial	Yes	No
Storage Subsystem ID 8	92G	9177	Initial	Yes	No
Storage Subsystem ID 9	92G	9178	Initial	Yes	No
Storage Subsystem ID 10	92G	9179	Initial	Yes	No
Storage Subsystem ID 11	92G	9180	Initial	Yes	No
Storage Subsystem ID 12	92G	9181	Initial	Yes	No
Storage Subsystem ID 13	92G	9182	Initial	Yes	No
Storage Subsystem ID 14	92G	9183	Initial	Yes	No
Storage Subsystem ID 15	92G	9184	Initial	Yes	No
Storage Subsystem ID 16	92G	9185	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Storage Subsystem ID 17	92G	9186	Initial	Yes	No
Storage Subsystem ID 18	92G	9187	Initial	Yes	No
Storage Subsystem ID 19	92G	9188	Initial	Yes	No
Storage Subsystem ID 20	92G	9189	Initial	Yes	No
RFID AG/AP: 902-928 MHz	92G	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	92G	A2EW	Initial	Yes	No
OEM 1 FC Order Indicator	92G	ACW1	MES	Yes	No
OEM 2 FC Order Indicator	92G	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	92G	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	92G	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	92G	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	92G	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	92G	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	92G	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	92G	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	92G	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	92G	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	92G	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	92G	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	92G	ACWE	MES	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
OEM 15 FC Order Indicator	92G	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	92G	ACY1	Both	Yes	No
OEM 2 MTM Order Indicator	92G	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	92G	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	92G	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	92G	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	92G	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	92G	ACY7	Initial	Yes	No
OEM 8 MTM Order Indicator	92G	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	92G	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	92G	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	92G	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	92G	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	92G	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	92G	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	92G	ACYF	Initial	Yes	No
Generic Bezel	92G	ACZA	Initial	Yes	No
Generic Packaging	92G	ACZF	Initial	Yes	No
Storwize Expansion Bezel	92G	ACZK	MES	Yes	No
Order Type 1 Indicator - CTO	92G	ADN1	Initial	Yes	No
Order Type 2 Indicator - MTM Only	92G	ADN2	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Order Type 3 Indicator - FC Only	92G	ADN3	MES	Yes	No
TAA Designated Country	92G	ADZ1	Initial	Yes	No
Shipping and Handling NC	92G	AG00	Initial	Yes	No
Shipping and Handling	92G	AGDA	Initial	Yes	No
1.2TB 10K 3.5 Inch HDD	92G	AH73	Both	Yes	No
1.8TB 10K 3.5 Inch HDD	92G	AH74	Both	Yes	No
2.4TB 10K 3.5 Inch HDD	92G	AH75	Both	Yes	No
6TB 7.2K 3.5 Inch NL HDD	92G	AH77	Both	Yes	No
8TB 7.2K 3.5 NL HDD	92G	AH78	Both	Yes	No
10TB 7.2K 3.5 NL HDD	92G	AH79	Both	Yes	No
12TB 7.2K 3.5 Inch NL HDD	92G	AH7A	Both	Yes	No
14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD	92G	AH7B	Both	Yes	No
1.6TB 3.5 Inch Flash Drive	92G	AH7D	Both	Yes	No
3.2TB 3.5 Inch Flash Drive	92G	AH7E	Both	Yes	No
1.92TB 12 Gb SAS 3.5 Inch Flash Drive	92G	AH7J	Both	Yes	No
3.84TB 12 Gb SAS 3.5 Inch Flash Drive	92G	AH7K	Both	Yes	No
7.68TB 12 Gb SAS 3.5 Inch Flash Drive	92G	AH7L	Both	Yes	No
15.36TB 12 Gb SAS 3.5 Inch Flash Drive	92G	AH7M	Both	Yes	No
30.72 TB 12 Gb SAS	92G	AH7N	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
3.5 Inch Flash Drive					
Power Cord - PDU HD Exp.	92G	AHP5	Both	Yes	No
Future use - reserved 1	92G	AHY1	Initial	Yes	No
Future use - reserved 2	92G	AHY2	Initial	Yes	No
Future use - reserved 3	92G	AHY3	Initial	Yes	No
Future use - reserved 4	92G	AHY4	Initial	Yes	No
Future use - reserved 5	92G	AHY5	Initial	Yes	No
Future use - reserved 6	92G	AHY6	Initial	Yes	No
Future use - reserved 7	92G	AHY7	Initial	Yes	No
Future use - reserved 8	92G	AHY8	Initial	Yes	No
Future use - reserved 9	92G	AHY9	Initial	Yes	No
VersaStack Solution Indicator	92G	AHZC	Initial	Yes	No
All Flash Indicator	92G	AHZD	Initial	Yes	No
Hybrid Flash Indicator	92G	AHZE	Initial	Yes	No
CSC ORDER ROUTING INDICATOR - GUADALAJARA	92G	ECSM	Both	Yes	No
Route to Power Manufacturing Indicator	92G	EFD0	Initial	Yes	No
BP Post-Sale Services	92G	SVBP	Both	Yes	No
IBM Systems Lab Services Post-Sale Services	92G	SVCS	Both	Yes	No
Other IBM Post-Sale Services	92G	SVNN	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
4.8 TB NVMe FlashCore Module	U7B	ADS5	Both	Yes	No
9.6 TB NVMe FlashCore Module	U7B	ADS6	Both	Yes	No
19.2 TB NVMe FlashCore Module	U7B	ADS7	Both	Yes	No
38.4 TB NVMe FlashCore Module	U7B	ADS8	Both	Yes	No
375 GB NVMe Storage Class Memory Drive	U7B	ADTA	Both	Yes	No
750 GB NVMe Storage Class Memory Drive	U7B	ADTB	Both	Yes	No
800 GB NVMe Storage Class Memory Drive	U7B	ADTE	Both	Yes	No
1.6 TB NVMe Storage Class Memory Drive	U7B	ADTF	Both	Yes	No
JEMT Indicator	U7C	0021	Initial	Yes	No
TAA Compliance	U7C	0983	Initial	Yes	No
Rack Indicator None	U7C	4650	Initial	Yes	No
Rack Indicator Rack 1	U7C	4651	Initial	Yes	No
Rack Indicator Rack 2	U7C	4652	Initial	Yes	No
Rack Indicator Rack 3	U7C	4653	Initial	Yes	No
Rack Indicator Rack 4	U7C	4654	Initial	Yes	No
Rack Indicator Rack 5	U7C	4655	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Rack Indicator Rack 6	U7C	4656	Initial	Yes	No
Rack Indicator Rack 7	U7C	4657	Initial	Yes	No
Rack Indicator Rack 8	U7C	4658	Initial	Yes	No
Rack Indicator Rack 9	U7C	4659	Initial	Yes	No
Rack Indicator Rack 10	U7C	4660	Initial	Yes	No
Rack Indicator Rack 11	U7C	4661	Initial	Yes	No
Rack Indicator Rack 12	U7C	4662	Initial	Yes	No
Rack Indicator Rack 13	U7C	4663	Initial	Yes	No
Rack Indicator Rack 14	U7C	4664	Initial	Yes	No
Rack Indicator Rack 15	U7C	4665	Initial	Yes	No
Rack Indicator Rack 16	U7C	4666	Initial	Yes	No
Bulk Order Indicator	U7C	5555	MES	Yes	No
Storage Subsystem ID 1	U7C	9170	Initial	Yes	No
Storage Subsystem ID 2	U7C	9171	Initial	Yes	No
Storage Subsystem ID 3	U7C	9172	Initial	Yes	No
Storage Subsystem ID 4	U7C	9173	Initial	Yes	No
Storage Subsystem ID 5	U7C	9174	Initial	Yes	No
Storage Subsystem ID 6	U7C	9175	Initial	Yes	No
Storage Subsystem ID 7	U7C	9176	Initial	Yes	No
Storage Subsystem ID 8	U7C	9177	Initial	Yes	No
Storage Subsystem ID 9	U7C	9178	Initial	Yes	No



<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Storage Subsystem ID 10	U7C	9179	Initial	Yes	No
Storage Subsystem ID 11	U7C	9180	Initial	Yes	No
Storage Subsystem ID 12	U7C	9181	Initial	Yes	No
Storage Subsystem ID 13	U7C	9182	Initial	Yes	No
Storage Subsystem ID 14	U7C	9183	Initial	Yes	No
Storage Subsystem ID 15	U7C	9184	Initial	Yes	No
Storage Subsystem ID 16	U7C	9185	Initial	Yes	No
Storage Subsystem ID 17	U7C	9186	Initial	Yes	No
Storage Subsystem ID 18	U7C	9187	Initial	Yes	No
Storage Subsystem ID 19	U7C	9188	Initial	Yes	No
Storage Subsystem ID 20	U7C	9189	Initial	Yes	No
Power Cord - EMEA	U7C	9716	Both	Yes	No
Power Cord - Australia / New Zealand	U7C	9717	Both	Yes	No
Power Cord - Europe / Africa	U7C	9718	Both	Yes	No
Power Cord - Denmark	U7C	9719	Both	Yes	No
Power Cord - South Africa	U7C	9720	Both	Yes	No
Power Cord - Switzerland	U7C	9721	Both	Yes	No
Power Cord - Chile / Italy	U7C	9722	Both	Yes	No
Power Cord - Israel	U7C	9723	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Power Cord - Argentina	U7C	9725	Both	Yes	No
Power Cord - China	U7C	9726	Both	Yes	No
Power Cord - PDU Connection	U7C	9730	Both	Yes	No
Power Cord - Brazil	U7C	9733	Both	Yes	No
Power Cord - India	U7C	9734	Both	Yes	No
Power Cord - Korea	U7C	9736	Both	Yes	No
RFID AG/AP: 902-928 MHz	U7C	A2EV	Initial	Yes	No
RFID EMEA: 865.6-867.8 MHz	U7C	A2EW	Initial	Yes	No
Encryption Enablement	U7C	ACE1	Both	Yes	No
Encryption USB Drive Pack	U7C	ACEA	Both	Yes	No
768 GB Cache upgrade	U7C	ACGB	Both	Yes	No
512 GB Cache upgrade	U7C	ACGJ	Both	Yes	No
240 GB M.2 Boot drive Pair	U7C	ACGV	Initial	Yes	No
16 Gb FC LW SFP Transceivers(1'pair)	U7C	ACHU	Both	Yes	No
32 Gb FC LW SFP Transceivers (Pair)	U7C	ACHV	Both	Yes	No
1m OM3 Fiber Cable (LC)	U7C	ACSQ	Both	Yes	No
5m OM3 Fiber Cable (LC)	U7C	ACSR	Both	Yes	No
10m OM3 Fiber Cable (LC)	U7C	ACSS	Both	Yes	No
25m OM3 Fiber Cable (LC)	U7C	ACST	Both	Yes	No
OEM 1 FC Order Indicator	U7C	ACW1	MES	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
OEM 2 FC Order Indicator	U7C	ACW2	MES	Yes	No
OEM 3 FC Order Indicator	U7C	ACW3	MES	Yes	No
OEM 4 FC Order Indicator	U7C	ACW4	MES	Yes	No
OEM 5 FC Order Indicator	U7C	ACW5	MES	Yes	No
OEM 6 FC Order Indicator	U7C	ACW6	MES	Yes	No
OEM 7 FC Order Indicator	U7C	ACW7	MES	Yes	No
OEM 8 FC Order Indicator	U7C	ACW8	MES	Yes	No
OEM 9 FC Order Indicator	U7C	ACW9	MES	Yes	No
OEM 10 FC Order Indicator	U7C	ACWA	MES	Yes	No
OEM 11 FC Order Indicator	U7C	ACWB	MES	Yes	No
OEM 12 FC Order Indicator	U7C	ACWC	MES	Yes	No
OEM 13 FC Order Indicator	U7C	ACWD	MES	Yes	No
OEM 14 FC Order Indicator	U7C	ACWE	MES	Yes	No
OEM 15 FC Order Indicator	U7C	ACWF	MES	Yes	No
OEM 1 MTM Order Indicator	U7C	ACY1	Both	Yes	No
OEM 2 MTM Order Indicator	U7C	ACY2	Initial	Yes	No
OEM 3 MTM Order Indicator	U7C	ACY3	Initial	Yes	No
OEM 4 MTM Order Indicator	U7C	ACY4	Initial	Yes	No
OEM 5 MTM Order Indicator	U7C	ACY5	Initial	Yes	No
OEM 6 MTM Order Indicator	U7C	ACY6	Initial	Yes	No
OEM 7 MTM Order Indicator	U7C	ACY7	Initial	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
OEM 8 MTM Order Indicator	U7C	ACY8	Initial	Yes	No
OEM 9 MTM Order Indicator	U7C	ACY9	Initial	Yes	No
OEM 10 MTM Order Indicator	U7C	ACYA	Initial	Yes	No
OEM 11 MTM Order Indicator	U7C	ACYB	Initial	Yes	No
OEM 12 MTM Order Indicator	U7C	ACYC	Initial	Yes	No
OEM 13 MTM Order Indicator	U7C	ACYD	Initial	Yes	No
OEM 14 MTM Order Indicator	U7C	ACYE	Initial	Yes	No
OEM 15 MTM Order Indicator	U7C	ACYF	Initial	Yes	No
Generic Bezel	U7C	ACZA	Initial	Yes	No
Generic Packaging	U7C	ACZF	Initial	Yes	No
16 Gb FC 4 Port Adapter Cards (Pair)	U7C	ADB3	Both	Yes	No
32 Gb FC 4 Port Adapter Cards (Pair)	U7C	ADB4	Both	Yes	No
25GbE (RoCE) Adapter Cards (Pair)	U7C	ADB6	Both	Yes	No
25GbE (iWARP) Adapter Cards (Pair)	U7C	ADB7	Both	Yes	No
SAS Enclosure Attach Card Pair	U7C	ADBA	Both	Yes	No
Order Type 1 Indicator - CTO	U7C	ADN1	Initial	Yes	No
Order Type 2 Indicator - MTM Only	U7C	ADN2	Initial	Yes	No
Order Type 3 Indicator - FC Only	U7C	ADN3	MES	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
No Rules Order Indicator	U7C	ADNR	Both	Yes	No
4.8 TB NVMe FlashCore Module	U7C	ADS5	Both	Yes	No
9.6 TB NVMe FlashCore Module	U7C	ADS6	Both	Yes	No
19.2 TB NVMe FlashCore Module	U7C	ADS7	Both	Yes	No
38.4 TB NVMe FlashCore Module	U7C	ADS8	Both	Yes	No
800 GB NVMe Flash Drive	U7C	ADT1	Both	Yes	No
1.92 TB NVMe Flash Drive	U7C	ADT2	Both	Yes	No
3.84 TB NVMe Flash Drive	U7C	ADT3	Both	Yes	No
7.68 TB NVMe Flash Drive	U7C	ADT4	Both	Yes	No
15.36 TB NVMe Flash Drive	U7C	ADT5	Both	Yes	No
375 GB NVMe Storage Class Memory Drive	U7C	ADTA	Both	Yes	No
750 GB NVMe Storage Class Memory Drive	U7C	ADTB	Both	Yes	No
800 GB NVMe Storage Class Memory Drive	U7C	ADTE	Both	Yes	No
1.6 TB NVMe Storage Class Memory Drive	U7C	ADTF	Both	Yes	No
TAA Designated Country	U7C	ADZ1	Initial	Yes	No
Variable Usage	U7C	AE00	MES	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
1TB/ month					
Variable Usage 10TB/ month	U7C	AE01	MES	Yes	No
Variable Usage 100TB/ month	U7C	AE02	MES	Yes	No
Shipping and Handling NC	U7C	AG00	Initial	Yes	No
Shipping and Handling	U7C	AGDA	Initial	Yes	No
Power Cord - PDU C20	U7C	AHP6	Both	Yes	No
Future use - reserved 1	U7C	AHY1	Initial	Yes	No
Future use - reserved 2	U7C	AHY2	Initial	Yes	No
Future use - reserved 3	U7C	AHY3	Initial	Yes	No
Future use - reserved 4	U7C	AHY4	Initial	Yes	No
Future use - reserved 5	U7C	AHY5	Initial	Yes	No
Future use - reserved 6	U7C	AHY6	Initial	Yes	No
Future use - reserved 7	U7C	AHY7	Initial	Yes	No
Future use - reserved 8	U7C	AHY8	Initial	Yes	No
Future use - reserved 9	U7C	AHY9	Initial	Yes	No
VersaStack Solution Indicator	U7C	AHZC	Initial	Yes	No
All Flash Indicator	U7C	AHZD	Initial	Yes	No
Hybrid Flash Indicator	U7C	AHZE	Initial	Yes	No
Red Hat OpenShift Indicator	U7C	AJGH	Initial	Yes	No
No Ship MES	U7C	AQQQ	MES	Yes	No
CSC ORDER ROUTING	U7C	ECSM	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
INDICATOR					
- GUADALAJARA					
Route to Power Manufacturing Indicator	U7C	EFD0	Initial	Yes	No
BP Post-Sale Services	U7C	SVBP	Both	Yes	No
IBM Systems Lab Services Post-Sale Services	U7C	SVCS	Both	Yes	No
Other IBM Post-Sale Services	U7C	SVNN	Both	Yes	No

CSU = Customer setup

RP MES = Returnable parts MES

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