

# IBM Elastic Storage Server 4U106 delivers a high-density storage platform to minimize your data center footprint and power consumption

## Table of contents

<a href="#">1 Overview</a>	<a href="#">7 Publications</a>
<a href="#">1 Key prerequisites</a>	<a href="#">8 Technical information</a>
<a href="#">2 Planned availability date</a>	<a href="#">8 Terms and conditions</a>
<a href="#">2 Description</a>	<a href="#">13 Prices</a>
<a href="#">3 Product number</a>	<a href="#">22 Order now</a>

---

## At a glance

---

IBM Elastic Storage™ Server delivers the following benefits:

- Scale your data center with this very high-density storage platform
- Minimize data center footprint and power consumption while maximizing storage space
- Eliminate efficiency-draining acoustic interference with proprietary noise attenuator
- Maintain your data center easily with toolless drive carriers that save hours of time
- Ensure data is constantly available with hot-swappable controllers, PSUs, system fan modules, and expander cards

---

## Overview

---

Elastic Storage Server, the scalable, high-performance data and file management solution, is expanding its models, introducing nondisruptive capacity upgrade capabilities, and adding networking options.

Elastic Storage Server V5.3.2 offers:

- New high-capacity models with 106 denser drive enclosures
- Nondisruptive storage upgrades between select existing models
- 100 Gb Ethernet as an available switch option

Providing reliability, performance, and scalability, Elastic Storage Servers can be implemented for a range of diverse requirements.

---

## Feature exchange

---

None

---

## Key prerequisites

---

None

---

## Planned availability date

---

- November 2, 2018: All countries, except Mexico
- January 25, 2019: Available in Mexico

---

## Description

---

These Elastic Storage Server higher-density models take advantage of the newly announced 4U106 model storage drawer, offering 106 drives in 4U of rack space. This new storage drawer is supported by new higher-performance SAS adapters.

Model	4U drawers	Drives	Raw capacity (PB)
GL1C	1	104	1.04
GL2C	2	210	2.10
GL4C	4	422	4.22
GL6C	6	634	6.34

### Model upgrades

For clients with existing Power Systems™ servers, nondisruptive upgrades are introduced with Elastic Storage Server V5.3.2. With nondisruptive upgrades, the original data is preserved and accessible in place, while the added capacity of the new storage drawers is integrated into the original capacity without interruption. The existing data is rebalanced across both the new and old storage drawers, again without interruption to the Elastic Storage Server cluster. The new storage capacity is immediately available for use.

Nondisruptive upgrades are now supported between the following models:

From	To
GS1S	GS2S
GS2S	GS4S
GL1S	GL2S
GL2S	GL4S
GL4S	GL6S

In order to support faster workloads using industry standard interconnects, a new Mellanox 100 Gb Ethernet switch is added as an available networking option. This offers the highest performance for Ethernet-connected Elastic Storage Server systems.

Each Elastic Storage Server Storage Expansion (4U106) enclosure includes:

- 4U, 19-inch rack-mount enclosure with two AC power supplies (200 to 240 V)
- 106 HDD slots
- All one hundred and six slots will be populated with either 800 GB 2.5-inch SAS SSDs or 10 TB 2.5-inch SAS HDDs
- Two ports connected per enclosure to NSD server interface
- Dual, redundant 2000 W power supplies
- SAS and power cables
- Rack mount rail kit
- Cable Management Arm (CMA)

For additional Elastic Storage Server information, see Hardware announcement [118-080](#), dated October 9, 2018.

## Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the [IBM<sup>®</sup> Accessibility](#) website.

### Product number

The following are newly announced features and model on the specified model of the IBM System Storage<sup>®</sup> 5147 machine type:

Description	Machine type	Model	Feature
ESS Model Upgrade Specify; GS1S to GS2S	5147	024	EFDP
ESS Model Upgrade Specify; GS2S to GS4S	5147	024	EFDQ
ESS GH12 Solution Specify (3.84TB SSD & 4TB HDD) - 756TB RAW DISK CAPACITY	5147	024	EST1
ESS GH12 Solution Specify (3.84TB SSD & 8TB HDD) - 1420TB RAW DISK CAPACITY	5147	024	EST2
ESS GH12 Solution Specify (3.84TB SSD & 10TB HDD) - 1752TB RAW DISK CAPACITY	5147	024	EST3
ESS GH12 Solution Specify (15.36TB SSD & 4TB HDD) - 1033TB RAW DISK CAPACITY	5147	024	EST4
ESS GH12 Solution Specify (15.36TB SSD & 8TB HDD) - 1697TB RAW DISK CAPACITY	5147	024	EST5
ESS GH12 Solution Specify (15.36TB SSD & 10TB HDD) - 2029TB RAW DISK CAPACITY	5147	024	EST6
ESS Model Upgrade Specify; GL1S to GL2S	5147	084	EFDR
ESS Model Upgrade Specify; GL2S to GL4S	5147	084	EFDS
ESS Model Upgrade Specify; GL4S to GL6S	5147	084	EFDT
ESS GH12 Solution Specify (3.84TB SSD & 4TB HDD) - 756TB RAW DISK CAPACITY	5147	084	EST1
ESS GH12 Solution Specify (3.84TB SSD & 8TB HDD) - 1420TB RAW DISK CAPACITY	5147	084	EST2

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
ESS GH12 Solution Specify (3.84TB SSD & 10TB HDD) - 1752TB RAW DISK CAPACITY	5147	084	EST3
ESS GH12 Solution Specify (15.36TB SSD & 4TB HDD) - 1033TB RAW DISK CAPACITY	5147	084	EST4
ESS GH12 Solution Specify (15.36TB SSD & 8TB HDD) - 1697TB RAW DISK CAPACITY	5147	084	EST5
ESS GH12 Solution Specify (15.36TB SSD & 10TB HDD) - 2029TB RAW DISK CAPACITY	5147	084	EST6
ESS 4U106 Storage Elastic Storage Server	5147	106	
Rack Indicator None	5147	106	4650
Rack Indicator Rack 1	5147	106	4651
Rack Indicator Rack 2	5147	106	4652
Rack Indicator Rack 3	5147	106	4653
Rack Indicator Rack 4	5147	106	4654
Rack Indicator Rack 5	5147	106	4655
Rack Indicator Rack 6	5147	106	4656
Rack Indicator Rack 7	5147	106	4657
Rack Indicator Rack 8	5147	106	4658
Rack Indicator Rack 9	5147	106	4659
Rack Indicator Rack 10	5147	106	4660
Rack Indicator Rack 11	5147	106	4661
Rack Indicator Rack 12	5147	106	4662
Rack Indicator Rack 13	5147	106	4663
Rack Indicator Rack 14	5147	106	4664
Rack Indicator Rack 15	5147	106	4665
Rack Indicator Rack 16	5147	106	4666
Bulk Order Indicator	5147	106	5555
Month Indicator	5147	106	9461
Day Indicator	5147	106	9462
Hour Indicator	5147	106	9463
Minute Indicator	5147	106	9464
Quantity Indicator	5147	106	9465

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Countable Member Indicator	5147	106	9466
Shipping and Handling NC	5147	106	AG00
800GB SSD Asm	5147	106	AJG4
10TB Drive Asm	5147	106	AJG7
Power ACP Solution Specify	5147	106	ECL0
CSC ORDER ROUTING INDICATOR - GUADALAJARA	5147	106	ECSM
INDICATOR - DRAWER NOT FACTORY INTEGRATED	5147	106	EFD0
Primary Unit	5147	106	EGS0
Sub System #1 Indicator	5147	106	EGS1
Sub System #2 Indicator	5147	106	EGS2
Sub System #3 Indicator	5147	106	EGS3
Sub System #4 Indicator	5147	106	EGS4
Sub System #5 Indicator	5147	106	EGS5
Sub System #6 Indicator	5147	106	EGS6
Sub System #7 Indicator	5147	106	EGS7
Sub System #8 Indicator	5147	106	EGS8
Sub System #9 Indicator	5147	106	EGS9
Sub System #10 Indicator	5147	106	EGST
Sub System #11 Indicator	5147	106	EGSU
Sub System #12 Indicator	5147	106	EGSV
Sub System #13 Indicator	5147	106	EGSW
Sub System #14 Indicator	5147	106	EGSX
Sub System #15 Indicator	5147	106	EGSY
Sub System #16 Indicator	5147	106	EGSZ
Storage Subsystem 01	5147	106	EN41
Storage Subsystem 02	5147	106	EN42
Storage Subsystem 03	5147	106	EN43
Storage Subsystem 04	5147	106	EN44
Storage Subsystem 05	5147	106	EN45
Storage Subsystem 06	5147	106	EN46
Storage Subsystem 07	5147	106	EN47

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Storage Subsystem 08	5147	106	EN48
Storage Subsystem 09	5147	106	EN49
Storage Subsystem 10	5147	106	EN50
Storage Subsystem 11	5147	106	EN51
Storage Subsystem 12	5147	106	EN52
Storage Subsystem 13	5147	106	EN53
Storage Subsystem 14	5147	106	EN54
Storage Subsystem 15	5147	106	EN55
Storage Subsystem 16	5147	106	EN56
Storage Subsystem 17	5147	106	EN57
Storage Subsystem 18	5147	106	EN58
Storage Subsystem 19	5147	106	EN59
Storage Subsystem 20	5147	106	EN60
Storage Subsystem 21	5147	106	EN61
Storage Subsystem 22	5147	106	EN62
Storage Subsystem 23	5147	106	EN63
Storage Subsystem 24	5147	106	EN64
Storage Subsystem 25	5147	106	EN65
Storage Subsystem 26	5147	106	EN66
Storage Subsystem 27	5147	106	EN67
Storage Subsystem 28	5147	106	EN68
Storage Subsystem 29	5147	106	EN69
Storage Subsystem 30	5147	106	EN70
Storage Subsystem 31	5147	106	EN71
Storage Subsystem 32	5147	106	EN72
Storage Subsystem 33	5147	106	EN73
Storage Subsystem 34	5147	106	EN74
Storage Subsystem 35	5147	106	EN75
Storage Subsystem 36	5147	106	EN76
Storage Subsystem 37	5147	106	EN77
Storage Subsystem 38	5147	106	EN78

Description	Machine type	Model	Feature
Storage Subsystem 39	5147	106	EN79
Storage Subsystem 40	5147	106	EN80
Storage Subsystem 41	5147	106	EN81
Storage Subsystem 42	5147	106	EN82
ESS Solution Specify	5147	106	ESS0
ESS GL1C Solution Specify (10TB HDD) - 1040 TB Raw Disk Capacity	5147	106	ESTS
ESS GL2C Solution Specify (10TB HDD) - 2100 TB Raw Disk Capacity	5147	106	ESTT
ESS GL4C Solution Specify (10TB HDD) - 4220 TB Raw Disk Capacity	5147	106	ESTU
ESS Restricted Offering	5147	106	ESTV
ESS GL6C Solution Specify (10TB HDD) - 6340 TB Raw Disk Capacity	5147	106	ESTW
ESS GL4C with copper SAS cables Solution Specify (10TB HDD) - 4220 TB Raw Disk Capacity	5147	106	ESTX
IBM Systems Lab Implmnt Svcs	5147	106	SVC0

---

## Business Partner information

---

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 118-057](#)

---

## Publications

---

No publications are shipped with these products.

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.

---

## Services

---

### IBM Systems Lab Services

---

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**

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>\(R\)</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.

---

## **Technical information**

---

### **Planning information**

#### ***Cable orders***

Not applicable

---

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

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**

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

---

## **Terms and conditions**

---

### **Volume orders**

Contact your IBM representative.

### **IBM Global Financing**



---

Yes

---

## Products - terms and conditions

---

### **Warranty period**

<b>Warranty and additional coverage options</b>	<b>Coverage summary<sup>1</sup></b>
Warranty period	1 year plus 2 years Extended Support (3 years total)
Service level	IBM On-Site Limited, 9x5 Next Business Day
<b>Service upgrade options</b>	
Warranty service upgrade	IBM On-Site Repair, 9x5 Same Day <sup>2</sup> and 24x7 Same Day options
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> Offered in US and EMEA only

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

IBM Elastic Storage Server comes with three years of hardware support.

IBM Elastic Storage Server Storage (machine type 5147) has a one-year warranty and two years of Extended Support (3 years total).

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.

### **Extended Warranty Service**

This product is provided with one year of standard warranty. For your convenience, IBM has provided two additional years of extended warranty services to make this offering. Consult with your advisors about the appropriate financial treatment for this offering.

### **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 Client 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:

- Canister
- Power supplies
- HDDs
- SSDs
- Fans
- Power cords
- SAS cables

#### **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:

- 9 hours per day, Monday through Friday, excluding holidays, next business day response. Calls must be received by 5:00 PM local time in order to qualify for next business day response.

#### **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 clients, 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***

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

At IBM's discretion you will receive 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. The following on-site response-time objectives are available as warranty service upgrades for your machine. Available offerings are:

- 9 hours per day, Monday through Friday, excluding holidays, same business day response
- 24 hours per day, 7 days a week, 4 hour average response, same day
- 24 hours per day, 7 days a week, 2 hour average response, same day

Client Replaceable Units (CRUs) may be provided as part of the machine's standard warranty CRU Service except that you may install a CRU yourself or request IBM installation, at no additional charge, under the CRU and On-site Service level specified above. For additional information on the CRU Service, see the warranty information.

### ***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, 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. 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 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.

### ***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.

### ***Client 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 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 have been designated as Tier 1 CRUs:

- Canister
- Power supplies
- HDDs
- SSDs
- Fans
- Power cords
- SAS cables

### ***CRU and Machine Exchange Service***

At IBM's discretion you will receive CRU service or IBM will initiate shipment of a replacement machine to your location. You are responsible for its installation and verification of operation. You must pack the failed machine into the shipping container that contained the replacement machine and return the failed machine to IBM. Transportation charges, both ways, are paid by IBM. You may be charged for the replacement machine if IBM does not receive the failed machine within 15 days of your receipt of the replacement.

### ***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, clients 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***

No

***Model conversions***

No

***Machine installation***

Installation is performed by IBM. IBM will install the machine in accordance with the IBM installation procedures for the machine. In the United States, contact IBM at 1-800-IBM-SERV (426-7378). In other countries, contact the local IBM office.

***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 customers. The educational allowance may not be added to any other discount or allowance.

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

---

**Prices**

---

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

The following are newly announced features and model on the specified model of the IBM System Storage 5147 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>
ESS4U106SElasticStorageServer			Both	No	
ESS Model Upgrade Specify; GS1S to GS2S	024	EFDP	Initial	N/A	No
ESS Model Upgrade Specify; GS2S to GS4S	024	EFDQ	Initial	N/A	No
ESS GH12 Solution Specify (3.84TB SSD & 4TB HDD) - 756TB RAW DISK CAPACITY	024	EST1	Initial	N/A	No
ESS GH12 Solution Specify (3.84TB SSD & 8TB HDD) - 1420TB RAW DISK CAPACITY	024	EST2	Initial	N/A	No
ESS GH12 Solution Specify (3.84TB SSD & 10TB HDD) - 1752TB RAW DISK CAPACITY	024	EST3	Initial	N/A	No
ESS GH12 Solution Specify (15.36TB SSD & 4TB HDD) - 1033TB RAW DISK CAPACITY	024	EST4	Initial	N/A	No
ESS GH12 Solution Specify (15.36TB SSD & 8TB HDD) - 1697TB RAW DISK CAPACITY	024	EST5	Initial	N/A	No
ESS GH12 Solution Specify (15.36TB SSD & 10TB	024	EST6	Initial	N/A	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>
HDD) - 2029TB RAW DISK CAPACITY					
ESS Model Upgrade Specify; GL1S to GL2S	084	EFDR	Initial	N/A	No
ESS Model Upgrade Specify; GL2S to GL4S	084	EFDS	Initial	N/A	No
ESS Model Upgrade Specify; GL4S to GL6S	084	EFDT	Initial	N/A	No
ESS GH12 Solution Specify (3.84TB SSD & 4TB HDD) - 756TB RAW DISK CAPACITY	084	EST1	Initial	N/A	No
ESS GH12 Solution Specify (3.84TB SSD & 8TB HDD) - 1420TB RAW DISK CAPACITY	084	EST2	Initial	N/A	No
ESS GH12 Solution Specify (3.84TB SSD & 10TB HDD) - 1752TB RAW DISK CAPACITY	084	EST3	Initial	N/A	No
ESS GH12 Solution Specify (15.36TB SSD & 4TB HDD) - 1033TB RAW DISK CAPACITY	084	EST4	Initial	N/A	No
ESS GH12 Solution Specify (15.36TB SSD & 8TB HDD) - 1697TB RAW DISK CAPACITY	084	EST5	Initial	N/A	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>
ESS GH12 Solution Specify (15.36TB SSD & 10TB HDD) - 2029TB RAW DISK CAPACITY	084	EST6	Initial	N/A	No
Rack Indicator None	106	4650	Initial	N/A	No
Rack Indicator Rack 1	106	4651	Initial	N/A	No
Rack Indicator Rack 2	106	4652	Initial	N/A	No
Rack Indicator Rack 3	106	4653	Initial	N/A	No
Rack Indicator Rack 4	106	4654	Initial	N/A	No
Rack Indicator Rack 5	106	4655	Initial	N/A	No
Rack Indicator Rack 6	106	4656	Initial	N/A	No
Rack Indicator Rack 7	106	4657	Initial	N/A	No
Rack Indicator Rack 8	106	4658	Initial	N/A	No
Rack Indicator Rack 9	106	4659	Initial	N/A	No
Rack Indicator Rack 10	106	4660	Initial	N/A	No
Rack Indicator Rack 11	106	4661	Initial	N/A	No
Rack Indicator Rack 12	106	4662	Initial	N/A	No
Rack Indicator Rack 13	106	4663	Initial	N/A	No
Rack Indicator Rack 14	106	4664	Initial	N/A	No
Rack Indicator Rack 15	106	4665	Initial	N/A	No
Rack Indicator Rack 16	106	4666	Initial	N/A	No
Bulk Order Indicator	106	5555	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>
Month Indicator	106	9461	Initial	N/A	No
Day Indicator	106	9462	Initial	N/A	No
Hour Indicator	106	9463	Initial	N/A	No
Minute Indicator	106	9464	Initial	N/A	No
Quantity Indicator	106	9465	Initial	N/A	No
Countable Member Indicator	106	9466	Initial	N/A	No
Shipping and Handling NC	106	AG00	Initial	N/A	No
800GB SSD Asm	106	AJG4	Initial	N/A	No
10TB Drive Asm	106	AJG7	Initial	N/A	No
Power ACP Solution Specify	106	ECL0	Initial	N/A	No
CSC ORDER ROUTING INDICATOR - GUADALAJARA	106	ECSM	Initial	N/A	No
INDICATOR - DRAWER NOT FACTORY INTEGRATED	106	EFD0	Initial	N/A	No
Primary Unit	106	EGS0	Initial	N/A	No
Sub System #1 Indicator	106	EGS1	Initial	N/A	No
Sub System #2 Indicator	106	EGS2	Initial	N/A	No
Sub System #3 Indicator	106	EGS3	Initial	N/A	No
Sub System #4 Indicator	106	EGS4	Initial	N/A	No
Sub System #5 Indicator	106	EGS5	Initial	N/A	No
Sub System #6 Indicator	106	EGS6	Initial	N/A	No
Sub System #7 Indicator	106	EGS7	Initial	N/A	No
Sub System #8 Indicator	106	EGS8	Initial	N/A	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>
Sub System #9 Indicator	106	EGS9	Initial	N/A	No
Sub System #10 Indicator	106	EGST	Initial	N/A	No
Sub System #11 Indicator	106	EGSU	Initial	N/A	No
Sub System #12 Indicator	106	EGSV	Initial	N/A	No
Sub System #13 Indicator	106	EGSW	Initial	N/A	No
Sub System #14 Indicator	106	EGSX	Initial	N/A	No
Sub System #15 Indicator	106	EGSY	Initial	N/A	No
Sub System #16 Indicator	106	EGSZ	Initial	N/A	No
Storage Subsystem 01	106	EN41	Initial	N/A	No
Storage Subsystem 02	106	EN42	Initial	N/A	No
Storage Subsystem 03	106	EN43	Initial	N/A	No
Storage Subsystem 04	106	EN44	Initial	N/A	No
Storage Subsystem 05	106	EN45	Initial	N/A	No
Storage Subsystem 06	106	EN46	Initial	N/A	No
Storage Subsystem 07	106	EN47	Initial	N/A	No
Storage Subsystem 08	106	EN48	Initial	N/A	No
Storage Subsystem 09	106	EN49	Initial	N/A	No
Storage Subsystem 10	106	EN50	Initial	N/A	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 11	106	EN51	Initial	N/A	No
Storage Subsystem 12	106	EN52	Initial	N/A	No
Storage Subsystem 13	106	EN53	Initial	N/A	No
Storage Subsystem 14	106	EN54	Initial	N/A	No
Storage Subsystem 15	106	EN55	Initial	N/A	No
Storage Subsystem 16	106	EN56	Initial	N/A	No
Storage Subsystem 17	106	EN57	Initial	N/A	No
Storage Subsystem 18	106	EN58	Initial	N/A	No
Storage Subsystem 19	106	EN59	Initial	N/A	No
Storage Subsystem 20	106	EN60	Initial	N/A	No
Storage Subsystem 21	106	EN61	Initial	N/A	No
Storage Subsystem 22	106	EN62	Initial	N/A	No
Storage Subsystem 23	106	EN63	Initial	N/A	No
Storage Subsystem 24	106	EN64	Initial	N/A	No
Storage Subsystem 25	106	EN65	Initial	N/A	No
Storage Subsystem 26	106	EN66	Initial	N/A	No
Storage Subsystem 27	106	EN67	Initial	N/A	No
Storage Subsystem 28	106	EN68	Initial	N/A	No
Storage Subsystem 29	106	EN69	Initial	N/A	No
Storage Subsystem 30	106	EN70	Initial	N/A	No
Storage Subsystem 31	106	EN71	Initial	N/A	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 32	106	EN72	Initial	N/A	No
Storage Subsystem 33	106	EN73	Initial	N/A	No
Storage Subsystem 34	106	EN74	Initial	N/A	No
Storage Subsystem 35	106	EN75	Initial	N/A	No
Storage Subsystem 36	106	EN76	Initial	N/A	No
Storage Subsystem 37	106	EN77	Initial	N/A	No
Storage Subsystem 38	106	EN78	Initial	N/A	No
Storage Subsystem 39	106	EN79	Initial	N/A	No
Storage Subsystem 40	106	EN80	Initial	N/A	No
Storage Subsystem 41	106	EN81	Initial	N/A	No
Storage Subsystem 42	106	EN82	Initial	N/A	No
ESS Solution Specify	106	ESS0	Initial	N/A	No
ESS GL1C Solution Specify (10TB HDD) - 1040 TB Raw Disk Capacity	106	ESTS	Initial	N/A	No
ESS GL2C Solution Specify (10TB HDD) - 2100 TB Raw Disk Capacity	106	ESTT	Initial	N/A	No
ESS GL4C Solution Specify (10TB HDD) - 4220 TB Raw Disk Capacity	106	ESTU	Initial	N/A	No
ESS Restricted Offering	106	ESTV	Initial	N/A	No

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
ESS GL6C Solution Specify (10TB HDD) - 6340 TB Raw Disk Capacity	106	ESTW	Initial	N/A	No
ESS GL4C with copper SAS cables Solution Specify (10TB HDD) - 4220 TB Raw Disk Capacity	106	ESTX	Initial	N/A	No
IBM Systems Lab Implmnt Svcs	106	SVC0	Initial	N/A	No

CSU = Customer setup

RP MES = Returnable parts MES

N/A = Not applicable

#### Alternative service

Machine type-model	Feature	IOR IBM same day onsite repair (IOR, 24 x 7)	IO8 IBM next day onsite repair (IOR, NBD 9 x 5)
5147-106			
5147-106	AJG4		
5147-106	AJG7		

#### ServiceElect (ESA) charges

For ServiceElect (ESA) maintenance service charges, contact IBM Global Services at 888-IBM-4343 (426-4343).

#### IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified clients to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all client segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or go to the [IBM Global Financing](#) website for more information.

IBM Global Financing offerings are provided through IBM Credit LLC in the United States and other IBM subsidiaries and divisions worldwide to qualified commercial and government clients. Rates are based on a client's credit rating, financing terms, offering type, equipment type and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

---

## Order now

---

To order, contact the IBM Digital Sales Center, your local IBM representative, or your IBM Business Partner. To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968). For more information, contact the IBM Digital Sales Center.

Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

For IBM representative: askibm@ca.ibm.com

For IBM Business Partner: pwcs@us.ibm.com

IBM Digital Sales Offices  
1177 S Belt Line Rd  
Coppell, TX 75019-4642, US

The IBM Digital Sales Center, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

**Note:** Shipments will begin after the planned availability date.

### ***Trademarks***

IBM Elastic Storage and Power Systems are trademarks of IBM Corporation in the United States, other countries, or both.  
IBM, System Storage, PartnerWorld and Global Technology Services are registered trademarks of IBM Corporation in the United States, other countries, or both.  
Other company, product, and service names may be trademarks or service marks of others.

### ***Terms of use***

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at

[Terms of use](#)

For the most current information regarding IBM products, consult your IBM representative or reseller, or go to the IBM worldwide contacts page

[IBM United States](#)