

IBM FlashSystem and IBM SAN Volume Controller (SVC) models offer additional Ethernet connectivity options

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Overview

IBM FlashSystem[®] and SVC models offer RJ45 adapters to use with 10/25 Gb Ethernet host bus adapters (HBAs) and multifiber push-on (MPO) connectors to use with 100 Gb Ethernet HBAs.

An additional SAN24B-6 switch option is also introduced for FlashSystem 9500R, replacing the existing b-type switch with an equivalent 32 GB model supported by IBM[®] Storage Expert Care.

Key requirements

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

Planned availability date

July 26, 2022.

Availability within a country is subject to local legal requirements.

Description

IBM FlashSystem 5015 and 5035 support RJ45 adapters for use with 10/25 Gb Ethernet HBAs, similar to other products in the FlashSystem family.

For IBM FlashSystem 7300, FlashSystem 9500, and SVC products, 1-meter to 25-meter MPO cables are being offered for use with the 100 Gb Ethernet HBAs, enabling clients the option of ordering them with the HBA rather than supplying their own.

An additional SAN24B-6 switch option is offered for FlashSystem 9500R, replacing the existing b-type switch with an equivalent 32 GB model, 8969-F24, which is supported by IBM Storage Expert Care. The level of Expert Care for this switch will, where possible, closely match the selected level of Expert Care on the FlashSystem 9500.

Accessibility by people with disabilities

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 Reports](#) website.

Reference information

For additional information about FlashSystem 9500, see Hardware Announcement [ZG22-0010](#), dated February 8, 2022.

For additional information about FlashSystem 7300, see Hardware Announcement [ZG22-0009](#), dated February 8, 2022.

For additional information about FlashSystem 5015 and FlashSystem 5035, see Hardware Announcement [ZG21-0006](#), dated February 9, 2021.

For additional information about SVC, see Hardware Announcement [ZG22-0011](#), dated February 8, 2022.

For additional information about IBM Spectrum^(R) Virtualize software, see Software Announcements [ZP22-0028](#), dated February 8, 2022, and [ZP22-0082](#), dated April 19, 2022.

For complete information about the IBM Storage Expert Care Service and Support offerings, see Services Announcement [ZS21-0014](#), dated August 17, 2021.

Product number

Description	Machine type	Model	Feature
1m OM3 MPO cable	2145	SV3	ACSV
5m OM3 MPO cable	2145	SV3	ACSX
10m OM3 MPO cable	2145	SV3	ACSY
25m OM3 MPO cable	2145	SV3	ACSZ
1m OM3 MPO cable	2147	SV3	ACSV
5m OM3 MPO cable	2147	SV3	ACSX
10m OM3 MPO cable	2147	SV3	ACSY
25m OM3 MPO cable	2147	SV3	ACSZ
1m OM3 MPO cable	4657	924	ACSV
5m OM3 MPO cable	4657	924	ACSX
10m OM3 MPO cable	4657	924	ACSY
25m OM3 MPO cable	4657	924	ACSZ
1m OM3 MPO cable	4657	U7D	ACSV
5m OM3 MPO cable	4657	U7D	ACSX
10m OM3 MPO cable	4657	U7D	ACSY
25m OM3 MPO cable	4657	U7D	ACSZ

Description	Machine type	Model	Feature
1m OM3 MPO cable	4666	AH8	ACSV
5m OM3 MPO cable	4666	AH8	ACSX
10m OM3 MPO cable	4666	AH8	ACSY
25m OM3 MPO cable	4666	AH8	ACSZ
FlashSystem 9500R SAN24B-6 Switch Duct	4666	AH8	AL0D
1m OM3 MPO cable	4666	UH8	ACSV
5m OM3 MPO cable	4666	UH8	ACSX
10m OM3 MPO cable	4666	UH8	ACSY
25m OM3 MPO cable	4666	UH8	ACSZ
10GbE SFP+ RJ45 Transceivers (Four)	2072	2N2	ACJ2
10GbE SFP+ RJ45 Transceivers (Four)	2072	2N4	ACJ2
10GbE SFP+ RJ45 Transceivers (Four)	2072	3N2	ACJ2
10GbE SFP+ RJ45 Transceivers (Four)	2072	3N4	ACJ2

Publications

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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.

National language support

When available, translated product documentation can be found in the [IBM Support Portal](#).

Services

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Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Systems Lab Services consultants can perform infrastructure services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Systems Lab Services is designed to help clients solve business challenges, gain new skills, and apply best practices.

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For assistance, contact Systems Lab Services at ibmsls@us.ibm.com.

To learn more, see the [IBM Systems Lab Services](#) website.

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For details on available services, see the [Technology support for hybrid cloud environments](#) website.

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For additional information, see the [IBM Expert Labs](#) website.

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For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the [IBM Security Expert Labs](#) website.

IBM support

For installation and technical support information, see the [IBM Support Portal](#).

Additional support

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Technical information

Specified operating environment

Hardware requirements

Go to the [IBM SSIC](#) website for the latest hardware requirements and compatibility information.

Software requirements

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

Planning information

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 SVC and FlashSystem products. 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 SVC and FlashSystem control enclosure I/O ports to server or fabric ports.

16/32 Gb FC: SVC and FlashSystem products require a 50.0/125 micrometer fiber optic cable terminated with an LC Duplex connector. The following can be ordered with SVC and FlashSystem control enclosure models:

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

10/25 Gb Ethernet: When using optical connectors, the SVC and FlashSystem control enclosures require 50.0/125 micrometer fiber optic cable terminated with an LC Duplex connector. The following fiber optic cables can be ordered with SVC and FlashSystem control enclosure models:

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

10/25 GbE ports can be used with a 10GBASE-T (RJ45), available to order with the SVC and FlashSystem control enclosure models

10/25 GbE and 100 GbE I/O ports can be used with client supplied active and passive cables as listed in the product documentation.

100 Gb Ethernet: When using QSFP28 optical connectors, SVC and FlashSystem control enclosures require OM3 or OM4 MPO fiber cables. The following cables can be ordered with SVC and FlashSystem control enclosure models.

- 1-meter OM3 MPO cable
- 5-meter OM3 MPO cable
- 10-meter OM3 MPO cable
- 25-meter OM3 MPO cable

System management cables

SVC and FlashSystem control enclosures 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.

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.

Terms and conditions

Field installable feature

Yes

Warranty period

- Machine type 2145: One year
- Machine type 2147: Three years
- Machine type 4666: One year
- Machine type 4657: One year
- Machine type 2072: Three years

Machine types 2145, 4666, and 4657 are provided with one year of standard warranty. Machine types 2147 and 2072 are provided with one year of standard warranty and two years of extended warranty service. Please consult with your advisors about the appropriate financial treatment for these products.

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.

Client setup

Yes

Machine code

Machine type 2145 (SVC): Same license terms and conditions as designated machine.

Machine type 2147 (SVC): Same license terms and conditions as designated machine

Prices

For all local charges, contact your local IBM representative or IBM Business Partner.

Regional availability

Europe: Aland Islands, Albania, Andorra, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bouvet Island, British Indian Ocean Territory, Bulgaria, Union of the Comoros, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Falkland Islands (Malvinas), Faroe Islands, Finland, France, French Guiana, French Polynesia, French Southern Territories, Georgia, Germany, Gibraltar, Greece, Greenland, Guadeloupe, Guernsey, Holy See (Vatican City State), Hungary, Iceland, Ireland, Isle of Man, Israel, Italy, Jersey, Kazakhstan, Kyrgyzstan, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Martinique, Mayotte, Republic of Moldova, Monaco, Montenegro, Netherlands, New Caledonia, Republic of North Macedonia, Norway, Pitcairn, Poland, Portugal, Reunion, Romania, Saint Barthelemy, Saint Helena Ascension and Tristan da Cunha, Saint Martin, Saint Pierre and Miquelon, San Marino, Serbia, Slovakia, Slovenia, South Georgia and the South

Sandwich Islands, Spain, Svalbard and Jan Mayen, Sweden, Switzerland, Tajikistan, Turkmenistan, Ukraine, United Kingdom, Uzbekistan, Vanuatu, and Wallis and Futuna

Middle East and Africa: Afghanistan, Algeria, Angola, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Republic of Cabo Verde, Cameroon, Central African Republic, Chad, Democratic Republic of the Congo, Republic of the Congo, Republic of Côte d'Ivoire, Djibouti, Egypt, Equatorial Guinea, Eritrea, Kingdom of Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Iraq, Jordan, Kenya, Kuwait, Lebanon, Lesotho, Liberia, Libya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Oman, Pakistan, State of Palestine, Qatar, Rwanda, Sao Tome and Principe, Saudi Arabia, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, Sudan, United Republic of Tanzania, Togo, Tunisia, Turkey, Uganda, United Arab Emirates, Western Sahara, Yemen, Zambia, and Zimbabwe

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