



IBM PureApplication System delivers additional storage expansion options

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Overview

IBM^(R) PureApplication^(R) Storage Expansion options enable PureApplication Systems users to expand available storage for their PureApplication System workloads. Each Storage Expansion Enclosure includes 24 TB of hard disk drive and 1.6 TB of solid state drive for a total of 25.6 TB of storage.

Up to 3 Storage Expansion Enclosures can be attached to a PureApplication System to expand storage by up to 76.8 TB.

Key prerequisites

PureApplication System Storage Expansion options require PureApplication firmware level V2.1.1.2.

PureApplication System Storage Expansion options can be installed directly in the PureApplication System rack for models W2500, W2700, and W3700.

If there is insufficient room for on-rack installation, PureApplication Storage Expansion options can be installed into a rack that is positioned immediately adjacent to the PureApplication System and connected to the PureApplication System rack with cabling, which is included in the offering. The customer is required to supply the additional rack and Power^(R) Distribution Units with capacity to power the PureApplication System Storage Expansion Options

For planning information, refer to the [Technical information](#) section.

Planned availability date

December 4, 2015. PureApplication System Storage Expansion

Description

PureApplication Storage Expansion options enables users of PureApplication Systems to expand storage available for their PureApplication System workloads.

Up to 3 Storage Expansion Enclosures can be attached to a PureApplication System to expand storage by up to 76.8 TB.

Each 2U, 19-inch rack mount PureApplication System Storage Expansion Enclosure includes

- Twenty 1.2 TB 10K 2.5-inch hard disk drives
- Four 400 GB 2.5-inch solid state drives

PureApplication System Storage Expansion Enclosures include a one-year warranty and are serviced and maintained under guidelines published in the *IBM Appliances Handbook*. For details, refer to

<http://www-304.ibm.com/support/customercare/sas/f/applhandbook/home.html>

Optional Business Critical and Hard Drive Retention Service upgrades are available.

Each PureApplication System Storage Expansion Option is supported and maintained independently of the PureApplication System to which it is attached. Each PureApplication System Storage Expansion option must be maintained and supported under an independent Passport Advantage^(R) support contract.

Reference information

For information on the PureApplication System W2500 and W2700, refer to Software Announcement [214-203](#), dated April 22, 2014.

For information on the PureApplication System W3700, refer to Software Announcement [215-316](#), dated August 11, 2015.

For information on the PureApplication Software V2, refer to Software Announcement [214-335](#), dated July 29, 2014.

Program number

Program number	Program name
5725-X19	IBM PureApplication System Storage Expansion options

The PureApplication System Storage Expansion options are available with the following:

Program number	VRM	Program name
5725-X32	2.1.2	IBM PureApplication System W3700
5725-G32	2.1.2	IBM PureApplication System W1500
5725-F46	2.1.2	IBM PureApplication System W1700
5725-Q93	2.1.2	IBM PureApplication System W2500
5725-Q94	2.1.2	IBM PureApplication System W2700

Program number	Product name	Part number	Machine type-model
5725-X19	IBM PureApplication System Storage Expansion Enclosure	D1J6YLL	2076-224
5725-X19	IBM PureApplication	D1J76LL	2076-24F

Program number	Product name	Part number	Machine type-model
	System Storage Expansion Enclosure		

Education support

Not applicable.

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage website

<http://www.ibm.com/software/passportadvantage>

Publications

The PureApplication System W3700 Knowledge Center is available at

http://www.ibm.com/support/knowledgecenter/SS6PD2_2.1.1

Services

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Technical information

Specified operating environment

Software requirements

PureApplication System Storage Expansion Options requires PureApplication System firmware level V2.1.2.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

PureApplication System Storage Expansion Enclosures 2076-224 and 2076-24F

Physical specifications

Each PureApplication System Storage Expansion Enclosure is a 2U 19-inch rack mounted unit.

Weight

Product name	Weight (kg)	Weight (lbs)
PureApplication System Storage Expansion Enclosure 2076-224	25.0	55.2
PureApplication System Storage Expansion Enclosure 2076-24F	25.0	55.2

Power and heat

PureApplication	Power (watts)	Heat (BTU/hr)
PureApplication System Storage Expansion Enclosure 2076-224	304	1037
PureApplication System Storage Expansion Enclosure 2076-24F	304	1037

Product environment

- Temperature
 - Non-operating: 5 to 45° C (41 to 113° F)
 - Recommended operating temperature: 18 to 27° C (64 to 80° F)
 - Allowable operating temperature: 5 to 35° C (41 to 95° F)
- Relative humidity
 - Non-operating: 8% to 80%
 - Recommended operation: 5.5° C (42° F) dew point to 60% RH and 15° C (59° F) dew point
 - Maximum operating dew point: 28° C (84° F)
- Operating voltage: 100 to 240 Vac
- Operating frequency: 50 to 60 Hz
- Maximum power consumption: 304 watts
- Power factor: 0.98 typical
- Thermal output: 1037 Btu/hour (maximum)
- Maximum altitude: 3,050 m (10,000 ft)

Electromagnetic compatibility compliance

- US: FCC Part 15 Class A
- Canada: ICES-003, Class A
- Europe: EN 55022, Class A, EN 55024, EN 61000-3-2, EN 61000-3-3
- Japan: VCCI-A
- Korea: KC, Class A
- Taiwan: BSMI, CNS 13438, Class A
- Russia: EAC, Class A
- Australia/New Zealand: CISPR 22, Class A

Product safety compliance

- US: UL 60950-1
- Canada: CSA/CAN C22.2 No. 60950-1
- Europe: EN 60950-1, EN62479
- Taiwan, BSMI CNS 14336
- Russia: EAC/IEC 60950-1
- CB Report, IEC 60950-1

Planning information

Packaging

Not applicable.

Direct customer support

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express^(R). Product upgrades and technical support are provided by the Software Subscription and Support (Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

Ordering information

This product is only available via Passport Advantage. It is not available as shrinkwrap.

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

<http://www.ibm.com/partnerworld/wps/bplocator/>

Product group: PureApplication System

Product Identifier Description	(PID)
PureApplication System Storage Expansion Options	5724-X19

Product category: PureApplication Systems

Passport Advantage

Note: Products and features may not be available in all countries and territories.

PureApplication System Storage Expansion Options

Program name/Description (2076-224)	Part number
IBM PureApplication System Storage Expansion Enclosure 2076-224	
Appliance + Subscription and Support 12 Months	D1J6YLL
Annual Appliance Maintenance + Subscription and Support Renewal 12 Months	E0LZ5LL
Appliance Maintenance + Subscription and Support Reinstatement 12 Months	D1J6ZLL
Initial Appliance Business Critical Service Upgrade 12 Months	D1J70LL
Subsequent Appliance Business Critical Service Upgrade 12 Months	E0LZ6LL

Program name/Description (2076-24F)	Part number
IBM PureApplication System Storage Expansion Enclosure 2076-24F	
Appliance + Subscription and Support 12 Months	D1J76LL
Annual Appliance Maintenance + Subscription and Support Renewal 12 Months	E0LZALL
Appliance Maintenance + Subscription and Support Reinstatement 12 Months	D1J77LL
Initial Appliance Business Critical Service Upgrade 12 Months	D1J78LL
Subsequent Appliance Business Critical Service Upgrade 12 Months	E0LZBLL

The PureApplication System W3700 Business Critical Service Upgrade is available in the US and Puerto Rico.

PureApplication System W3700 Hard Drive Retention Service Upgrade

Program name/Description (2076-224)	Part number
IBM PureApplication System Storage Expansion Enclosure 2076-224	
Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D1J71LL
Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0LZ7LL

Program name/Description (2076-24F)	Part number
IBM PureApplication System Storage Expansion Enclosure 2076-24F	
Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D1J79LL
Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0LZCLL

Program name/Description	Part Number
IBM PureApplication System 8Gb SFP + Optical Transceiver	D1IIALL
IBM PureApplication System 16Gb SFP + Optical Transceiver	D1IIBLL
IBM PureApplication System 16Gb SAN Scalable Switch Upgrade	D1IICLL

The PureApplication System W3700 Hard Drive Retention Service Upgrade is available in the US and Puerto Rico.

Charge metric

Program name	PID	Charge metric
IBM PureApplication System Storage Expansion	5725-X19	Per Appliance Install

Appliance Install

Appliance Install is a unit of measure by which the Program can be licensed. An Appliance Install is an installed copy of the Program that is included on a single unit of supporting hardware. Licensee must obtain an entitlement for each Appliance Install of the Program.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Attachment for Appliance Service to Passport Advantage.

<http://www.ibm.com/software/lotus/passportadvantage/agreementsandforms.html>

This product is only available via Passport Advantage.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

Consult the *IBM Appliance Support Handbook* for further details on Appliance Warranty Service Upgrade options at

<http://www.ibm.com/software/appliance/support>

PureApplication Software V2.1.2

This product is only available via Passport Advantage.

PureApplication System includes system firmware to support operation of the appliance. The system firmware follows the IBM version, release, maintenance, fix pack number maintenance delivery terminology.

PureApplication System will provide two years of support for each system firmware release beginning at the general availability (GA) of the release. A system firmware release is a change in either the version or the release of the firmware. System firmware release maintenance and fixpacks will be made available from the PureSystems^(R) Centre. Releases of PureApplication System firmware that are older than two years are subject to support withdrawal at any time. System firmware release withdrawal dates will be published on the PureApplication Support website. For details, visit

<http://www.ibm.com/support/docview.wss?uid=swg21667771>

License Information number

Product name	License number
IBM PureApplication System Storage Expansion for W3700 V2.1.2	L-CTUR-A3KJPB
IBM PureApplication System Storage Expansion for W1700 / W2700 V2.1.2	L-CTUR-A3JLBG
IBM PureApplication System Storage Expansion for W1500 / W2500 V2.1.2	L-CTUR-A3JLD8

The program's License Information will be available for review on the IBM Software License Agreement website on December 4, 2015.

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Money-back guarantee

Not applicable for PureApplication Appliance W3700

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

Software Subscription and Support applies

Yes. Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your IBM Software Support Handbook at

<http://www.ibm.com/support/handbook>

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

Other support

Appliance support under Passport Advantage

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

Prices

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Software Value Plus. Additional information is also available at

<http://www.ibm.com/software/passportadvantage>

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For more financing information, visit

<http://www.ibm.com/financing>

Appliance announcement countries

The PureApplication System Storage Expansion Options is available in Puerto Rico and the US.

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