



IBM Power Systems I/O enhancements

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At a glance

IBM® Power® System enhancements for carrier-grade applications:

- DC power (#EB3H) and NEBS/ETSI compliance now available on the IBM Power System S822 and S822L
- Designed for clients that require hardened infrastructures because of the industries they serve or data center environments where the equipment is located
- Power S822 and Power S822L supports NEBS compliant local IBM Storage expansion options, including IBM Storwize® V3700

The IBM Power Systems™ family offers the following new adapter and drive options:

IBM i supported features

- 571 GB 15K RPM SAS SFF-1 (#ESDJ) Gen2 (#ESDN)
- 571 GB 15K RPM SAS SFF-3 Disk Drive (#ESDE)
- 387 GB SFF SFF-2 4k SSD (#ES0R) Gen3 (#ES0V)
- 775 GB SFF SFF-2 4k SSD (#ES0T) Gen3 4k SSD (#ES0X)

IBM AIX® and Linux™ supported features

- 177 GB 1.8" 4k SSD Read Intensive for AIX/Linux (#ES0Y) (528 byte #ES0Z)
- 600 GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (#ESDK) (Linux #ELDK)
- 600 GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block (#ESDP) (Linux #ELDP)
- 600 GB 15k RPM SAS SFF-3 Disk Drive - 5xx Block (Linux #ELDF)
- 387 GB SFF-2 4K SSD for AIX/Linux (#ES0Q), (Linux #EL4Q)
- 387 GB SFF-3 4k SSD AIX/Linux (#ES0U) (Linux #EL4U)
- 775 GB SFF-2 4k SSD for AIX/Linux (#ES0S) (Linux #EL4S)
- 775 GB SFF-3 4k SSD for AIX/Linux (#ES0W) (Linux (#EL4W))
- RDX removable disk technology: 2 TB Removable Disk Drive Cartridge (RDX) (#EU2T)

The Power System S824 server (8286-42A) will support 1 TB or 2 TB memory using 128 GB memory DIMMs. Consult your IBM seller for more information when ordering (RPQ 8A2232) available on October 14, 2014.

Overview

The IBM Power System S822 and S822L will be available for carrier-grade applications using industry standard ac or dc power sources. Both of these systems have been certified by an independent test laboratory to conform to the Network Equipment Building Systems (NEBS) Level 3 and the European Telecommunications Standards Institute (ETSI) standards. By supporting NEBS capability, both servers can be configured with two dc power supplies (#EB3H) for redundant hot swap capabilities. When choosing this option, also select Flexible Thermal Settings for NEBS Applications (#0709).

The customer is responsible for validation and proper usage of NEBS/ETSI conforming configurations of these systems in application systems and communications facilities.

IBM Power S822, visit

<http://www.ibm.com/systems/power/hardware/s822/index.html>

IBM Power S822L, visit

<http://www.ibm.com/systems/power/hardware/s812l-s822l/>

IBM Storwize V3700, visit

http://www.ibm.com/systems/storage/disk/storwize_v3700/overview.html

The PICe3 LP Coherent Accelerator Processor Interface (CAPI) Accelerator Adapter (#EJ16) is available for high bandwidth/low latency attachment of Flash arrays. This feature enables a low latency I/O path to up to 40 terabytes of Flash storage, enabling clients with growing in-memory NoSQL databases the opportunity to scale to larger data sets while reducing management cost and cluster latency. The adapter requires program customization to take advantage of the technology and requires a Linux OS.

A 177 GB 1.8-inch solid-state drive (SSD) is available in two different formats for Easy Tier® intensive-read applications:

- 177 GB 1.8-inch 4k SSD Read Intensive for AIX/Linux (#ES0Y)
- 177 GB 1.8-inch SSD Read Intensive for AIX/Linux 528 bytes (#ES0Z)

IBM POWER8™, POWER7®, and POWER7+™ servers can now add a 600 GB disk, which is available on different carriers as a 600 GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (#ESDK) or 600 GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block (#ESDP).

The same physical disks are available on select IBM PowerLinux™ (7R1/7R2) servers as a 600 GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (#ELDK) or as 600 GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block2 (#ELDP).

The disk is also available on S814 and S824 servers as 600 GB 15k RPM SAS SFF-3 Disk Drive - 5xx Block (#ELDF).

New 387 GB and 775 GB SSDs in two different carriers are available for use in S822, S814, and S824 servers:

- 387 GB SFF-2 SSD (#ES0Q)
- 387 GB SFF-3 SSD (#ES0U)
- 775 GB SFF-2 4k SSD (#ES0S)
- 775 GB SFF-3 SSD (#ES0W)

On the POWER8 S812L and S822L Linux only servers, 387 GB SFF-2 4K SSD for Linux (#EL4Q) and 775 GB SFF-2 4K SSD for Linux (#EL4S) are used in the EXP24S

SFF Gen2-bay Drawer. Also available in the low-profile CEC Gen3 bays are the 775 GB SFF-3 4K SSD for Linux (#EL4W) and the 387 GB SFF-3 4K SSD for Linux (#EL4U).

IBM i OS supported SSD and disk

Power System S814 (8286-41A) and S824 (8286-42A) servers support two new SSD features in the EXP24S SFF Gen2-bay Drawer (#EL1S): 387 GB SFF-2 4k SSD for IBM i (#ES0R) and 775 GB SFF-2 4k SSD for IBM i (#ES0T). Also available are SSDs mounted in a Gen2 carrier as 387 GB SFF-3 4k SSD for IBM i (#ES0V) and 775 GB SFF-3 4k SSD for IBM i (#ES0X) for use in the CEC Gen3 bays.

A new 528 byte, single-sided format disk, the 571 GB 15k RPM SAS SFF-3 Disk Drive (#ESDE), is available for use on S814 and S824 servers. This disk is available on POWER7 and POWER7+ servers as 571 GB 15K RPM SAS SFF-1 (#ESDJ) and as 571 GB 15K RPM SAS SFF-2 (#ESDN).

Additionally, increased storage capacity is available in RDX removable, disk technology with the 2.0 TB Removable Disk Drive Cartridge (#EU2T), which is supported on POWER6® and POWER7/POWER7+.

128 GB Memory DIMM

The Power System S824 server (8286-42A) will support 1 TB or 2 TB memory using 128 GB memory DIMMs. Consult your IBM seller for more information when ordering (RPQ 8A2232) available on October 14, 2014.

Key prerequisites

None

Planned availability date

October 31, 2014

Description

Carrier-grade platforms for NGN infrastructure and application deployment, designed for extreme shock, vibration and thermal conditions, which exceed normal data center design standards:

- POWER8 performance maximizes NGN throughput and responsiveness.
- Open and industry standard componentry lowers cost and complexity.
- Power management architecture delivers highest performance across broad thermal range.
- Supports same operating system and management options as standard Power Systems offerings.

Optional dc power supply and flexible thermal settings for the IBM Power System S822 (8284-22A) and S822L (8247-22L):

- Power Supply, 2x750 Watt, -48V DC, Hot-swap, Base and Redundant (#EB3H)
- Flexible Thermal Settings for NEBS Applications (#0709)

The IBM Power System S822 and S822L will be available for carrier-grade applications using industry standard ac or dc power sources. Both of these systems have been certified by an independent test laboratory to conform to the Network Equipment Building Systems (NEBS) Level 3 and the European Telecommunications Standards Institute (ETSI) standards. By supporting NEBS capability, both servers

will be able to be configured with two dc power supplies (#EB3H) for redundant hot swap capabilities. When choosing this option, also select Flexible Thermal Settings for NEBS Applications (#0709).

IBM Power S822, visit

<http://www.ibm.com/systems/power/hardware/s822/index.html>

IBM Power S822L, visit

<http://www.ibm.com/systems/power/hardware/s812l-s822l/>

IBM Storwize V3700, visit

http://www.ibm.com/systems/storage/disk/storwize_v3700/overview.html

Power Supply, 750 Watt, -48V DC, Hot-swap, Base and Redundant (#EB3H)

This feature provides a -48V DC telecommunications industry-standard power source, either as the primary power supply in the system or the secondary power supply for redundant power. The ac and dc power supplies cannot be mixed in a system. Two power supplies are required on an order for the IBM Power System S822 and S822L.

Flexible Thermal Settings for NEBS Applications (#0709)

This feature enables resets thermal tolerance of the system to higher limits specified by NEBS Level 3-compliant specifications.

Technical information

NEBS/ETSI and -48V DC Power Configurations features 0709 and EB3H are intended for usage in unique applications normally associated with the harsh environments of remotely located, mobile switching centers only and should be used with awareness of the intended application environment and potential limitations. NEBS/ETSI mode activation (#0709) overrides normal thermal and cooling operating limits and may cause undesirable performance in standard datacenter environments. Total power capacity of the 750 Watt, -48V DC power (#EB3H) limits normal configuration options and should only be used outside of recommended configurations with guidance from IBM.

The IBM Power System S822 and S822L systems were testing for Network Equipment Building Systems (NEBS) / European Telecommunications Standards Institute (ETSI) conformance using memory DIMMs, network adapters, and storage options most commonly requested for telco applications. Additional features may be qualified in the future, as requested by our clients. The scope of the conformance testing included additional standards (known as NEBS Level 3+) requested by some telecommunications network providers. Compliance testing was performed by a certified Independent Testing Laboratories (ITL), selected by IBM based on demonstrated competence in performing such testing, ongoing training programs, audit quality, and certification in nationally recognized quality programs for testing laboratories.

For additional guidance on NEBS/ETSI conforming applications of the Power System S822 and S822L, and usage of 750 watt -48V DC power supplies, consult your IBM sales specialist or visit

<http://www.ibm.com/systems/power/solutions/industry/telco.html>

Limitations

The customer is responsible for validation and proper usage of NEBS/ETSI conforming configurations of these systems in application systems and communications facilities.

More information

IBM Power S822, visit

<http://www.ibm.com/systems/power/hardware/s822/index.html>

IBM Power S822L, visit

<http://www.ibm.com/systems/power/hardware/s812l-s822l/>

IBM Storwize V3700, visit

http://www.ibm.com/systems/storage/disk/storwize_v3700/overview.html

Statement of general direction

POWER8 I/O Planning Insights

IBM plans to support additional PCIe adapters on the Power E870 and E880 servers to provide additional I/O configuration flexibility to clients. The following full-high profile adapters are planned to be placed in the PCIe Gen3 I/O Drawer:

- PCIe2 4-Port (10GbE and 1GbE) SR&RJ45 Adapter (#5744)
- 10Gb FCoE PCIe Dual Port Adapter (#5708)
- PCIe 380 MB Cache Dual Port 3Gb SAS RAID Adapter (#5805)
- PCIe2 4-port (10Gb FCoE and 1GbE) LR&RJ45 Adapter (#EN0M)

And the following low-profile adapters are planned to be placed in the E870 and E880 system node drawers:

- PCIe LP POWER® GXT145 Graphics Accelerator (#5269)
- PCIe LP 10GbE SR 1-port Adapter (#5275)
- PCIe LP 4Gb 2-Port Fibre Channel Adapter (#5276)
- PCIe2 LP 4-Port 10GbE&1GbE SR&RJ45 Adapter (#5280)
- PCIe2 LP 2-Port 4X IB QDR Adapter 40Gb (#5283)
- PCIe2 LP 2-port 10GbE SR Adapter (#5284)
- PCIe2 LP 3D Graphics Adapter x1 (#EC41)
- PCIe2 LP 4-Port (10Gb+1GbE) SR+RJ45 Adapter (#EN0T)
- PCIe2 LP 4-port (10Gb+1GbE) Copper SFP+RJ45 Adapter (#EN0V)
- PCIe LP 2-Port Async EIA-232 Adapter (#EN28)

IBM plans to support up to four PCIe Gen3 I/O drawers per Power E870 and E880 system node drawer, providing additional configuration flexibility and system growth.

IBM plans to extend the support of PCIe Gen3 I/O drawers to the POWER8 scale-out servers that have six or more cores. This drawer is planned to be attached via two x16 PCIe slots and will require an update to the currently available firmware.

IBM plans to add NIC SR-IOV capability to POWER8 servers using selected SR-IOV capable PCIe adapters. The adapters planned to be added are 4-port Ethernet Adapters with copper twinax ports (#EN0K, #EN0L, #EL3C), SR optical ports (#EN0H, #EN0J, #EL38), and LR optical ports (#EN0N, #EN0M).

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of

any future features or functionality described for our products remains at our sole discretion.

Product number

The following are newly announced features on the specific models of the IBM Power Systems 1457, 7014, 7042, 7120, 7316, 7891, 7893, 7895, 7953, 7954, 7955, 7965, 8202, 8203, 8204, 8205, 8231, 8233, 8234, 8236, 8246, 8247, 8248, 8268, 8284, 8286, 8406, 8408, 8412, 8956, 9109, 9117, 9119, and 9179 machine type:

New features available October 31, 2014

Description	Machine type	Model	Feature number
Product assembled in USA manufacturing plant	7014	B42	0984
	7014	S25	
	7014	T00	
	7014	T42	
	7042	CR8	
	7120	24E	
	7120	24L	
	7120	64C	
	7316	TF4	
	7893	92X	
	7895	23A	
	7895	23X	
	7895	43X	
	7953	94X	
	7954	24X	
	7955	01M	
	7965	94Y	
	8202	E4D	
	8205	E6D	
	8231	E1D	
	8231	E2D	
	8246	L1D	
	8246	L1T	
	8246	L2D	
	8246	L2T	
	8247	21L	
	8247	22L	
	8248	L4T	
	8268	E1D	
	8284	22A	
	8286	41A	
	8286	42A	
	8408	E8D	
	8412	EAD	
	8956	15X	
	9109	RMD	
	9117	MMC	
	9117	MMD	
	9179	MHD	
PCIe3 LP CAPI Accelerator Adapter	8247	21L	EJ16
Trial PowerVM® Live Partition Mobility	8247	22L	
	8286	41A	ELPM
	8286	42A	
Rack Content Specify for #EMX0 I/O Expansion Drawer	7014	T42	ER0M
Rack Content Specify: 8247-21L - 2EIA	7014	T00	ER18
	7014	T42	
	7965	94Y	
RACK SPECIFY FC EMX0	7014	B42	ER19
	7014	T00	
	7014	T42	
	7965	94Y	
2TB Removable Disk Drive Cartridge (RDX)	1457	7FL	EU2T
	7891	73X	
	7891	74X	

7895	22X
7895	23A
7895	23X
7895	42X
7895	43X
7954	24X
8202	E4B
8202	E4C
8202	E4D
8205	E6B
8205	E6C
8205	E6D
8231	E1C
8231	E1D
8231	E2B
8231	E2C
8231	E2D
8233	E8B
8236	E8C
8246	L1C
8246	L1D
8246	L1S
8246	L1T
8246	L2C
8246	L2D
8246	L2S
8246	L2T
8247	21L
8247	22L
8248	L4T
8268	E1D
8284	22A
8286	41A
8286	42A
8406	70Y
8406	71Y
8408	E8D
8412	EAD
9109	RMD
9117	MMB
9117	MMC
9117	MMD
9179	MHB
9179	MHC
9179	MHD

New features available November 18, 2014

Description	Machine type	Model	Feature number
387GB SFF-2 4K SSD for Linux	8247	21L	EL4Q
775GB SFF-2 4K SSD for Linux	8247	22L	EL4S
387GB SFF-3 4K SSD for Linux	8247	21L	EL4U
775GB SFF-3 4K SSD for Linux	8247	22L	EL4W
600GB 15k RPM SAS SFF-3 Disk Drive - 5xx Block	8247	21L	ELDF
600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block	8246	L1D	ELDK
	8246	L1T	
	8246	L2D	
	8246	L2T	
600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	8246	L1T	ELDP
	8246	L2T	
	8247	21L	
	8247	22L	
	8248	L4T	
Quantity 150 of #ELDP 600GB 15k RPM SFF-2 Disk	8246	L2T	ELQ0
	8247	21L	
	8247	22L	

Quantity 150 of #EL4S 775GB SFF-2 4k SSD (Linux)	8248	L4T
	8247	21L
	8247	22L
Quantity 150 of #EL4Q 387GB SFF-2 4k SSD (Linux)	8247	21L
	8247	22L
#ESDE Load Source Specify (571GB 15k RPM SFF-3)	8286	41A
	8286	42A
#ESDJ Load Source Specify (571GB 15K RPM SFF-1)	8202	E4D
	8205	E6D
	8231	E1D
	8231	E2D
	8268	E1D
	8408	E8D
	9109	RMD
	9117	MMD
	9119	FHB
	9179	MHD
#ESDN Load Source Specify (571GB 15K RPM SFF-2)	8202	E4D
	8205	E6D
	8231	E1D
	8231	E2D
	8268	E1D
	8286	41A
	8286	42A
	8408	E8D
	9109	RMD
	9117	MMD
	9119	FHB
	9179	MHD
#ES0R Load Source Specify (387GB SSD SFF-2 4K)	8286	41A
	8286	42A
#ES0T Load Source Specify (775GB SSD SFF-2 4K)	8286	41A
	8286	42A
#ES0V Load Source Specify (387GB SSD SFF-3 4k)	8286	41A
	8286	42A
#ES0X Load Source Specify (775GB SSD SFF-3 4k)	8286	41A
	8286	42A
Quantity 150 of #ES0Q 387GB SFF-2 4k SSD (AIX/ Linux)	8284	22A
	8286	41A
	8286	42A
Quantity 150 of #ES0R 387GB SFF-2 4k SSD (IBM i)	8286	41A
	8286	42A
Quantity 150 of #ES0S 775GB SFF-2 4k SSD (AIX/ Linux)	8284	22A
	8286	41A
	8286	42A
Quantity 150 of #ES0T 775GB SFF-2 4k SSD (IBM i)	8286	41A
	8286	42A
Quantity 150 of #ESDJ (571GB 15K RPM SAS SFF-1 for IBM i)	9117	MMD
	9119	FHB
	9179	MHD
Quantity 150 of #ESDK (571GB 15K RPM SAS SFF-1 for AIX/Linuxi)	8412	EAD
	9117	MMD
	9119	FHB
	9179	MHD
Quantity 150 of #ESDN (571GB 15K RPM SAS SFF-2 for IBM i)	8202	E4D
	8205	E6D
	8231	E2D
	8286	41A
	8286	42A
	8408	E8D
	9109	RMD
	9117	MMD
	9119	FHB
	9179	MHD
Quantity 150 of #ESDP (600GB 15K RPM SAS SFF-2 for AIX/LINUX)	8202	E4D
	8205	E6D
	8231	E2D
	8284	22A

	8286	41A	
	8286	42A	
	8408	E8D	
	8412	EAD	
	9109	RMD	
	9117	MMD	
	9119	FHB	
	9179	MHD	
387GB SFF-2 4K SSD for AIX/Linux	8284	22A	ES0Q
	8286	41A	
	8286	42A	
387GB SFF-2 4k SSD for IBM i	8286	41A	ES0R
	8286	42A	
775GB SFF-2 4k SSD for AIX/Linux	8284	22A	ES0S
	8286	41A	
	8286	42A	
775GB SFF-2 4k SSD for IBM i	8286	41A	ES0T
	8286	42A	
387GB SFF-3 4k SSD AIX/Linux	8284	22A	ES0U
	8286	41A	
	8286	42A	
387GB SSF-3 4k SSD for IBM i	8286	41A	ES0V
	8286	42A	
775GB SFF-3 4k SSD for AIX/Linux	8284	22A	ES0W
	8286	41A	
	8286	42A	
775GB SFF-3 4k SSD for IBM i	8286	41A	ES0X
	8286	42A	
571GB 15k RPM SAS SFF-3 Disk Drive - 528 Block (IBM i)	8286	41A	ESDE
	8286	42A	
600GB 15k RPM SAS SFF-3 Disk Drive - 5xx Block (AIX/Linux)	8284	22A	ESDF
	8286	41A	
	8286	42A	
571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	8202	E4D	ESDJ
	8205	E6D	
	8231	E1D	
	8231	E2D	
	8268	E1D	
	8408	E8D	
	9109	RMD	
	9117	MMD	
	9119	FHB	
	9179	MHD	
600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (AIX/Linux)	8202	E4D	ESDK
	8205	E6D	
	8231	E1D	
	8231	E2D	
	8268	E1D	
	8408	E8D	
	8412	EAD	
	9109	RMD	
	9117	MMD	
	9119	FHB	
	9179	MHD	
571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block (IBM i)	8202	E4D	ESDN
	8205	E6D	
	8231	E1D	
	8231	E2D	
	8268	E1D	
	8286	41A	
	8286	42A	
	8408	E8D	
	9109	RMD	
	9117	MMD	
	9119	FHB	
	9179	MHD	
600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block (AIX/Linux)	8202	E4D	ESDP
	8205	E6D	

8231	E1D
8231	E2D
8268	E1D
8284	22A
8286	41A
8286	42A
8408	E8D
8412	EAD
9109	RMD
9117	MMD
9119	FHB
9179	MHD

The following are newly announced features on the specific models of the IBM Power Systems 1457, 7014, 7042, 7120, 7316, 7891, 7893, 7895, 7953, 7954, 7955, 7965, 8202, 8203, 8204, 8205, 8231, 8233, 8234, 8236, 8246, 8247, 8248, 8268, 8284, 8286, 8406, 8408, 8412, 8956, 9109, 9117, 9119, and 9179 machine type:

New features available November 18, 2014

Description	Machine type	Model	Feature number
177 GB 1.8" 4k SSD Read Intensive for AIX/Linux	8284	22A	ES0Y
	8286	42A	
177 GB 1.8" SSD Read Intensive for AIX/Linux (528 byte)	8284	22A	ES0Z
	8286	42A	

The following are newly announced features on the specific models of the IBM Power Systems 1457, 7014, 7042, 7120, 7316, 7891, 7893, 7895, 7953, 7954, 7955, 7965, 8202, 8203, 8204, 8205, 8231, 8233, 8234, 8236, 8246, 8247, 8248, 8268, 8284, 8286, 8406, 8408, 8412, 8956, 9109, 9117, 9119, and 9179 machine type:

New features available November 21, 2014

Description	Machine type	Model	Feature number
Flexible Thermal Settings for NEBS Applications	8247	22L	0709
	8284	22A	
DC Power Supply, 750 Watt, DC, Base and Redundant	8247	22L	EB3H
	8284	22A	

The following are newly announced features on the specific models of the IBM Power Systems 1457, 7014, 7042, 7120, 7316, 7891, 7893, 7895, 7953, 7954, 7955, 7965, 8202, 8203, 8204, 8205, 8231, 8233, 8234, 8236, 8246, 8247, 8248, 8268, 8284, 8286, 8406, 8408, 8412, 8956, 9109, 9117, 9119, and 9179 machine type:

New features available November 28, 2014

Description	Machine type	Model	Feature number
REDIS LAB	8247	21L	EHKE
	8247	22L	
PCIe Crypto Coprocessor No BSC 4765-001	8202	E4B	EJ27
	8202	E4C	
	8202	E4D	
	8203	E4A	
	8204	E8A	
	8205	E6B	
	8205	E6C	
	8205	E6D	
	8233	E8B	
	8236	E8C	
	8286	41A	
	8286	42A	
PCIe Crypto Coprocessor Gen3 BSC 4765-001	8202	E4B	EJ28

	8202	E4C
	8202	E4D
	8203	E4A
	8204	E8A
	8205	E6B
	8205	E6C
	8205	E6D
	8231	E2C
	8231	E2D
	8233	E8B
	8234	EMA
PCIe Crypto Coprocessor Gen4 BSC 4765-001	8408	E8D
	8412	EAD
	9109	RMD
	9117	MMA
	9117	MMB
	9117	MMC
	9117	MMD
	9119	FHA
	9119	FHB
	9179	MHB
	9179	MHC
	9179	MHD
	8408	E8D
	8412	EAD
	9109	RMD
	9117	MMB
	9117	MMC
	9117	MMD
	9179	MHB
	9179	MHC
	9179	MHD

The following are newly announced features on the specific models of the IBM Power Systems 1457, 7014, 7042, 7120, 7316, 7891, 7893, 7895, 7953, 7954, 7955, 7965, 8202, 8203, 8204, 8205, 8231, 8233, 8234, 8236, 8246, 8247, 8248, 8268, 8284, 8286, 8406, 8408, 8412, 8956, 9109, 9117, 9119, and 9179 machine type:

New features available December 5, 2014

Description	Machine type	Model	Feature number
Integrated Solution Packing	7014	S25	ECSS
	7014	T00	
	7014	T42	
	7042	CR8	
	7120	24E	
	7120	24L	
	7120	48E	
	7120	64C	
	7316	TF4	
	7965	94Y	
	8202	E4D	
	8205	E6D	
	8231	E1D	
	8231	E2D	
	8246	L1T	
	8246	L2D	
	8247	21L	
	8247	22L	
	8248	L4T	
	8268	E1D	
	8284	22A	
	8286	41A	
	8286	42A	
	8408	E8D	
	8412	EAD	
	9109	RMD	
	9117	MMD	
	9179	MHD	

The following are newly announced features on the specific models of the IBM Power Systems 1457, 7014, 7042, 7120, 7316, 7891, 7893, 7895, 7953, 7954, 7955, 7965, 8202, 8203, 8204, 8205, 8231, 8233, 8234, 8236, 8246, 8247, 8248, 8268, 8284, 8286, 8406, 8408, 8412, 8956, 9109, 9117, 9119, and 9179 machine type:

New features available December 12, 2014

Description	Machine type	Model	Feature number
2 Port Async EIA-232 PCIe Adapter	8202	E4B	EN27
	8202	E4C	
	8202	E4D	
	8205	E6B	
	8205	E6C	
	8205	E6D	
	8231	E2C	
	8231	E2D	
	8233	E8B	
	8236	E8C	
	8246	L2S	
	8246	L2T	
	8248	L4T	
	8408	E8D	
	8412	EAD	
	9109	RMD	
	9117	MMB	
	9117	MMC	
	9117	MMD	
	9119	FHB	
	9179	MHB	
	9179	MHC	
	9179	MHD	
PCIe LP 2-Port Async EIA-232 Adapter	8202	E4B	EN28
	8202	E4C	
	8202	E4D	
	8205	E6B	
	8205	E6C	
	8205	E6D	
	8231	E1C	
	8231	E1D	
	8231	E2B	
	8231	E2C	
	8231	E2D	
	8246	L1C	
	8246	L1D	
	8246	L1S	
	8246	L1T	
	8246	L2B	
	8246	L2C	
	8246	L2D	
	8246	L2S	
	8246	L2T	
	8268	E1D	

The following are newly announced features on the specific models of the IBM Power Systems 8202, 8205, 8231, 8233, 8234, 8236, 8246, 8247, 8248, 8261, 8268, 8284, 8286, 8408, 8412, 9109, 9117, 9119, 9125, 9179 machine type:

New features available October 31, 2014

Description	Machine type	Model	Feature number
PCIe 2-Line WAN w/Modem	8202	E4B	2893
	8202	E4C	
	8202	E4D	
	8205	E6B	
	8205	E6C	
	8205	E6D	
	8231	E2C	

	8231	E2D	
	8233	E8B	
	8234	EMA	
	8236	E8C	
	8246	L2T	
	8248	L4T	
	8261	E4S	
	8286	41A	
	8286	42A	
	8408	E8D	
	9109	RMD	
	9117	MMA	
	9117	MMB	
	9117	MMC	
	9117	MMD	
	9119	FHB	
	9179	MHB	
	9179	MHC	
	9179	MHD	
PCIe2 LP 2-Port 4X IB QDR Adapter 40Gb	8202	E4B	5283
	8202	E4C	
	8202	E4D	
	8205	E6B	
	8205	E6C	
	8205	E6D	
	8231	E1C	
	8231	E1D	
	8231	E2C	
	8231	E2D	
	8246	L1C	
	8246	L1D	
	8246	L1S	
	8246	L1T	
	8246	L2C	
	8246	L2D	
	8246	L2S	
	8246	L2T	
	8247	21L	
	8247	22L	
	8268	E1D	
	8284	22A	
	9125	F2C	
PCIe2 2-Port 4X IB QDR Adapter 40Gb	8202	E4C	5285
	8202	E4D	
	8205	E6C	
	8205	E6D	
	8286	41A	
	8286	42A	
	8408	E8D	
	8412	EAD	
	9109	RMD	
	9117	MMC	
	9117	MMD	
	9179	MHC	
	9179	MHD	
PCIe3 LP 2-Port 40GbE NIC RoCE QSFP+ Adapter	8247	21L	EC3A
	8247	22L	
	8284	22A	
PCIe3 2-Port 40GbE NIC RoCE QSFP+ Adapter	8286	41A	EC3B
	8286	42A	

Feature conversions

The existing components being replaced during a model or feature conversion become the property of IBM and must be returned.

Feature conversions are always implemented on a "quantity of one for quantity of one" basis. Multiple existing features may not be converted to a single new feature. Single existing features may not be converted to multiple new features.

The following conversions will be supported in eConfig on November 11, 2014 customers:

Feature conversions for 8202-E4B adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8202-E4C adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8202-E4D adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8202-E4D disk features

From FC:	To FC:	Return parts
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No

Feature conversions for 8203-E4A to 8202-E4D adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8203-E4A adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8204-E8A adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8205-E6B adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8205-E6C adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8205-E6D adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8205-E6D disk features

From FC:	To FC:	Return parts
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No

Feature conversions for 8231-E1D disk features

From FC:	To FC:	Return parts
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No

Feature conversions for 8231-E2D disk features

From FC:	To FC:	Return parts
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No

Feature conversions for 8233-E8B adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No

Feature conversions for 8268-E1D disk features

From FC:	To FC:	Return parts
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No

Feature conversions for 8408-E8D adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 8408-E8D disk features

From FC:	To FC:	Return parts
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No

Feature conversions for 8412-EAD adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 8412-EAD disk features

From FC:	To FC:	Return parts
EQDK - Quantity 150 of #ESDK (571GB 15K RPM SAS SFF-1 for AIX/Linux) ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	EQDP - Quantity 150 of #ESDP (600GB 15K RPM SAS SFF-2 for AIX/LINUX) ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No
		No

Feature conversions for 9109-RMD adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9109-RMD disk features

From FC:	To FC:	Return parts
ESDJ - 571GB 15K RPM SAS	ESDN - 571GB 15K RPM SAS	No

SFF-1 Disk Drive - 528 Block (IBM i)	SFF-2 Disk Drive - 528 Block
ESDK - 600GB 15K RPM SAS	ESDP - 600GB 15K RPM SAS No
SFF-1 Disk Drive - 5xx Block (IBM i)	SFF-2 Disk Drive - 5xx Block

Feature conversions for 9117-MMA to 9117-MMD adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9117-MMA to 9179-MHD adapter features

From FC:	To FC:	Return parts
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9117-MMB adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9117-MMB to 9117-MMD adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9117-MMC adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9117-MMC to 9117-MMD adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9117-MMD adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9117-MMD disk features

From FC:	To FC:	Return parts
EQDJ - Quantity 150 of #ESDJ (571GB 15K RPM SAS SFF-1 for IBM i)	EQDN - Quantity 150 of #ESDN (571GB 15K RPM SAS SFF-2 for IBM i)	No
EQDK - Quantity 150 of #ESDK (571GB 15K RPM SAS SFF-1 for AIX/Linux/i)	EQDP - Quantity 150 of #ESDP (600GB 15K RPM SAS SFF-2 for AIX/LINUX)	No
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No

Feature conversions for 9119-FHB disk features

From FC:	To FC:	Return parts
EQDJ - Quantity 150 of #ESDJ (571GB 15K RPM SAS SFF-1 for IBM i)	EQDN - Quantity 150 of #ESDN (571GB 15K RPM SAS SFF-2 for IBM i)	No
EQDK - Quantity 150 of #ESDK (571GB 15K RPM SAS SFF-1 for AIX/Linux/i)	EQDP - Quantity 150 of #ESDP (600GB 15K RPM SAS SFF-2 for AIX/LINUX)	No
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No

Feature conversions for 9179-MHB adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC	EJ28 - PCIe Crypto Coprocessor Gen3 BSC	No

4765-001	4765-001	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No
	4765-001	

Feature conversions for 9179-MHB to 9179-MHD adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9179-MHC adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9179-MHC to 9179-MHD adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9179-MHD adapter features

From FC:	To FC:	Return parts
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No

Feature conversions for 9179-MHD disk features

From FC:	To FC:	Return parts
EQDJ - Quantity 150 of #ESDJ (571GB 15K RPM SAS SFF-1 for IBM i)	EQDN - Quantity 150 of #ESDN (571GB 15K RPM SAS SFF-2 for IBM i)	No
EQDK - Quantity 150 of #ESDK (571GB 15K RPM SAS SFF-1 for AIX/Linux)	EQDP - Quantity 150 of #ESDP (600GB 15K RPM SAS SFF-2 for AIX/LINUX)	No
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No

ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No
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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® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=114-170>

Publications

No publications are shipped with these features.

Services

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.

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<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

http://www.ibm.com/services/learning/ites.wss/zz/en?pageType=tp_search_new

Technical information

Refer to the technical information for these products.

- Power S822L servers (8247-22L)
- Management Server (8247-21L)
- HMC (7042-CR8)
- Networking Switches (7120-48E, 7120-64C, and 7120-24L)
- Flat Panel Display (7316-TF4)
- Rack (7014-T42)
- DCS3700 storage expansion drawers (1818-80E)

Specified operating environment

Physical specifications

For physical specifications, refer to the Sales Manual.

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

Planning information

Cable orders

No cables required.

Security, auditability, and control

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

IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa_main", and select "Configure Electronic Service Agent." In addition, ESA now includes a powerful Web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the "symptoms," diagnosing the error, and manually calling IBM Support to open a problem record. Its 24x7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured

to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

More accurate reporting: Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support website at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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

Terms and conditions

Terms and conditions features

MES discount applicable

Yes.

Equal to the volume commitment discount.

Field-installable feature

Yes

Warranty period

These features assume the same warranty or maintenance terms as the machine in which they are installed for the full warranty or maintenance period announced for such machine.

Customer setup

Yes.

Machine code

Same license terms and conditions as base machine

Prices

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

The following are newly announced features on the specific models of the IBM Power Systems 1457, 7014, 7042, 7120, 7316, 7891, 7893, 7895, 7953, 7954, 7955, 7965, 8202, 8203, 8204, 8205, 8231, 8233, 8234, 8236, 8246, 8247, 8248, 8268, 8284, 8286, 8406, 8408, 8412, 8956, 9109, 9117, 9119, and 9179 machine type:

Description	Model	Feature	Purchase	Maint.	Both/ Charge	RP Support	CSU	MES
Machine type 1457	number	number	price					
2TB Removable Disk Cartrdg-RDX								
	7FL	EU2T		MES	Yes	No		

Description	Model	Feature	Purchase	Maint.	Both/ Charge	RP Support	CSU	MES
Machine type 7014	number	number	price					
Asm in USA manufacturing plant								
	B42	0984		Both	Yes	No		
	S25			Both	Yes	No		
	T00			Both	Yes	No		
	T42			Both	Yes	No		
Integrated Solution Packing								
	S25	ECSS		Initial	N/A	No		
	T00			Initial	N/A	No		
	T42			Initial	N/A	No		
Rack Content Specify for EMX0								
	T42	ER0M		Initial	N/A	No		
Specify 8247-21L - 2 EIA								
	T00	ER18		Initial	N/A	No		
	T42			Initial	N/A	No		
RACK SPECIFY FC EMX0								
	B42	ER19		Initial	N/A	No		
	T00			Initial	N/A	No		
	T42			Initial	N/A	No		

Description	Model	Feature	Purchase	Maint.	Both/ Charge	RP Support	CSU	MES
Machine type 7042	number	number	price					
Asm in USA manufacturing plant								
	CR8	0984		Both	Yes			
Integrated Solution Packing								
	CR8	ECSS		Initial	N/A	No		

Description	Model	Feature	Purchase	Maint.	Both/ Charge	RP Support	CSU	MES
Machine type 7120	number	number	price					
Asm in USA manufacturing plant								
	24E	0984		Both	Yes			
	24L			Both	Yes			
	64C			Both	Yes			
Integrated Solution Packing								
	24E	ECSS		Initial	N/A	No		

24L			Initial	N/A	No
48E			Initial	N/A	No
64C			Initial	N/A	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

Asm in USA manufacturing plant				Minimum	Initial/	
				Monthly	MES/	
Integrated Solution Packing	TF4	0984		Both	Yes	No
	TF4	ECSS		Initial	N/A	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

2TB Removable Disk Cartrdg-RDX				Minimum	Initial/	
				Monthly	MES/	
	73X	EU2T		MES	Yes	No
	74X			MES	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

Asm in USA manufacturing plant				Minimum	Initial/	
				Monthly	MES/	
	92X	0984		Both	Yes	

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

Asm in USA manufacturing plant				Minimum	Initial/	
				Monthly	MES/	
	23A	0984		Both	Yes	
	23X			Both	Yes	
	43X			Both	Yes	

2TB Removable Disk Cartrdg-RDX				Minimum	Initial/	
				Monthly	MES/	
	22X	EU2T		MES	Yes	No
	23A			Both	Yes	No
	23X			Both	Yes	No
	42X			MES	Yes	No
	43X			Both	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

Asm in USA manufacturing plant				Minimum	Initial/	
				Monthly	MES/	
	94X	0984		Both	Yes	

Asm in USA manufacturing plant				Minimum	Initial/	
				Monthly	MES/	
2TB Removable Disk Cartrdg-RDX	24X	0984		Both	Yes	
	24X	EU2T		Both	Yes	No

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ Monthly MES/
Machine type 7955							

Asm in USA manufacturing plant
01M 0984 Both Yes

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ Monthly MES/
Machine type 7965							

Asm in USA manufacturing plant
94Y 0984 Both Yes
Integrated Solution Packing
94Y ECSS Initial N/A No
Specify 8247-21L - 2 EIA
94Y ER18 Initial N/A No
RACK SPECIFY FC EMX0
94Y ER19 Initial N/A No

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ Monthly MES/
Machine type 8202							

Asm in USA manufacturing plant
E4D 0984 Both Yes
Integrated Solution Packing
E4D ECSS Initial N/A No
PCIe Crypto Coprocessor NO BSC
E4B EJ27 MES Yes No
E4C MES Yes No
E4D Both Yes No
PCIe Crypto Coprocessor G3 BSC
E4B EJ28 MES Yes No
E4C MES Yes No
E4D Both Yes No
#ESDJ Load Source Specify 571G
E4D ELSJ Both Yes No
#ESDN Load Source Specify 571G
E4D ELSN Both Yes No
2 Port Async EIA 232 PCIe Adap
E4B EN27 MES Yes No
E4C MES Yes No
E4D Both Yes No
PCIe LP 2 Port Async EIA 232 A
E4B EN28 MES Yes No
E4C MES Yes No
E4D Both Yes No
Qty 150 of #ESDN 571GB 15k HDD
E4D EQDN Both Yes No
Qty 150 of #ESDP 600GB 15k HDD
E4D EQDP Both Yes No
571GB 15k SAS SFF-1 Disk Drive
E4D ESDJ Both Yes No
600GB 15k SAS SFF-1 Disk Drive
E4D ESDK Both Yes No
571GB 15k SAS SFF-2 Disk Drive
E4D ESDN Both Yes No
600GB 15k SAS SFF-2 Disk Drive
E4D ESDP Both Yes No
2TB Removable Disk Cartrdg-RDX
E4B EU2T MES Yes No
E4C MES Yes No
E4D Both Yes No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

PCIe Crypto Coprocessor NO	BSC					
	E4A	EJ27		MES	Yes	No
PCIe Crypto Coprocessor G3	BSC					
	E4A	EJ28		MES	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

PCIe Crypto Coprocessor NO	BSC					
	E8A	EJ27		MES	Yes	No
PCIe Crypto Coprocessor G3	BSC					
	E8A	EJ28		MES	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

Asm in USA manufacturing plant						
	E6D	0984		Both	Yes	

Integrated Solution Packing						
	E6D	ECSS		Initial	N/A	No

PCIe Crypto Coprocessor NO	BSC					
	E6B	EJ27		MES	Yes	No
	E6C			MES	Yes	No
	E6D			Both	Yes	No

PCIe Crypto Coprocessor G3	BSC					
	E6B	EJ28		MES	Yes	No
	E6C			MES	Yes	No
	E6D			Both	Yes	No

#ESDJ Load Source Specify 571G						
	E6D	ELSJ		Both	Yes	No

#ESDN Load Source Specify 571G						
	E6D	ELSN		Both	Yes	No

2 Port Async EIA 232 PCIe Adap						
	E6B	EN27		MES	Yes	No
	E6C			MES	Yes	No
	E6D			Both	Yes	No

PCIe LP 2 Port Async EIA 232 A						
	E6B	EN28		MES	Yes	No
	E6C			MES	Yes	No
	E6D			Both	Yes	No

Qty 150 of #ESDN 571GB 15k HDD						
	E6D	EQDN		Both	Yes	No

Qty 150 of #ESDP 600GB 15k HDD						
	E6D	EQDP		Both	Yes	No

571GB 15k SAS SFF-1 Disk Drive						
	E6D	ESDJ		Both	Yes	No

600GB 15k SAS SFF-1 Disk Drive						
	E6D	ESDK		Both	Yes	No

571GB 15k SAS SFF-2 Disk Drive						
	E6D	ESDN		Both	Yes	No

600GB 15k SAS SFF-2 Disk Drive						
	E6D	ESDP		Both	Yes	No

2TB Removable Disk Cartrdg-RDX						
	E6B	EU2T		MES	Yes	No
	E6C			MES	Yes	No
	E6D			Both	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES
Asm in USA manufacturing plant						
	E1D	0984		Both	Yes	
	E2D			Both	Yes	
Integrated Solution Packing						
	E1D	ECSS		Initial	N/A	No
	E2D			Initial	N/A	No
PCIe Crypto Coprocessor G3	BSC					
	E2C	EJ28		MES	Yes	No
	E2D			Both	Yes	No
#ESDJ Load Source Specify	571G					
	E1D	ELSJ		Both	Yes	No
	E2D			Both	Yes	No
#ESDN Load Source Specify	571G					
	E1D	ELSN		Both	Yes	No
	E2D			Both	Yes	No
2 Port Async EIA 232 PCIe Adap						
	E2C	EN27		MES	Yes	No
	E2D			Both	Yes	No
PCIe LP 2 Port Async EIA 232 A						
	E1C	EN28		MES	Yes	No
	E1D			Both	Yes	No
	E2B			MES	Yes	No
	E2C			MES	Yes	No
	E2D			Both	Yes	No
Qty 150 of #ESDN 571GB 15k HDD						
	E2D	EQDN		Both	Yes	No
Qty 150 of #ESDP 600GB 15k HDD						
	E2D	EQDP		Both	Yes	No
571GB 15k SAS SFF-1 Disk Drive						
	E1D	ESDJ		Both	Yes	No
	E2D			Both	Yes	No
600GB 15k SAS SFF-1 Disk Drive						
	E1D	ESDK		Both	Yes	No
	E2D			Both	Yes	No
571GB 15k SAS SFF-2 Disk Drive						
	E1D	ESDN		Both	Yes	No
	E2D			Both	Yes	No
600GB 15k SAS SFF-2 Disk Drive						
	E1D	ESDP		Both	Yes	No
	E2D			Both	Yes	No
2TB Removable Disk Cartrdg-RDX						
	E1C	EU2T		MES	Yes	No
	E1D			Both	Yes	No
	E2B			MES	Yes	No
	E2C			MES	Yes	No
	E2D			Both	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES
PCIe Crypto Coprocessor No BSC						
	E8B	EJ27		MES	Yes	No
PCIe Crypto Coprocessor G3	BSC					
	E8B	EJ28		MES	Yes	No
2 Port Async EIA 232 PCIe Adap						
	E8B	EN27		MES	Yes	No
2TB Removable Disk Cartrdg-RDX						
	E8B	EU2T		MES	Yes	No

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ Monthly MES/
Machine type 8234							
PCIE Crypto Coprocessor G3 BSC	EMA	EJ28		MES	Yes	No	
Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ Monthly MES/
Machine type 8236							
PCIE Crypto Coprocessor No BSC	E8C	EJ27		MES	Yes	No	
2 Port Async EIA 232 PCIE Adap	E8C	EN27		MES	Yes	No	
2TB Removable Disk Cartrdg-RDX	E8C	EU2T		MES	Yes	No	
Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ Monthly MES/
Machine type 8246							
Asm in USA manufacturing plant	L1D	0984		Both	Yes		
	L1T			Both	Yes		
	L2D			Both	Yes		
	L2T			Both	Yes		
Integrated Solution Packing	L1T	ECSS		Initial	N/A	No	
	L2D			Initial	N/A	No	
600GB 15K SAS SFF-1 Disk Drive	L1D	ELDK		Both	Yes	No	
	L1T			Both	Yes	No	
	L2D			Both	Yes	No	
	L2T			Both	Yes	No	
600GB 15K SAS SFF-2 Disk Drive	L1T	ELDP		Both	Yes	No	
	L2T			Both	Yes	No	
Qty 150 of #ELDP 600GB 15k HDD	L2T	ELQ0		Both	Yes	No	
2 Port Async EIA 232 PCIE Adap	L2S	EN27		MES	Yes	No	
	L2T			Both	Yes	No	
PCIE LP 2 Port Async EIA 232 A	L1C	EN28		MES	Yes	No	
	L1D			Both	Yes	No	
	L1S			MES	Yes	No	
	L1T			MES	Yes	No	
	L2B			MES	Yes	No	
	L2C			MES	Yes	No	
	L2D			Both	Yes	No	
	L2S			Both	Yes	No	
	L2T			Both	Yes	No	
2TB Removable Disk Cartrdg-RDX	L1C	EU2T		MES	Yes	No	
	L1D			Both	Yes	No	
	L1S			MES	Yes	No	
	L1T			Both	Yes	No	
	L2C			MES	Yes	No	
	L2D			Both	Yes	No	
	L2S			MES	Yes	No	
	L2T			Both	Yes	No	

Description	Model	Feature	Purchase	Maint.	Both/	RP		
Machine type	Machine type	number	number	price	Charge	Support	CSU	MES
Flexible Thermal Settings NEBS								
	22L	0709			Initial	N/A	No	
Asm in USA manufacturing plant	21L	0984			Both	Yes		
	22L				Both	Yes		
DC Power Supply, 750 watt, DC	22L	EB3H			Initial	N/A	No	
Integrated Solution Packing	21L	ECSS			Initial	N/A	No	
	22L				Initial	N/A	No	
REDIS LAB	21L	EHKE			Initial	N/A	No	
	22L				Initial	N/A	No	
PCIE3 LP CAPI Accelerator Adap	21L	EJ16			Both	Yes	No	
	22L				Both	Yes	No	
387GB SFF-2 4K SSD for Linux	21L	EL4Q			Both	Yes	No	
	22L				Both	Yes	No	
775GB SFF-2 4k SSD for Linux	21L	EL4S			Both	Yes	No	
	22L				Both	Yes	No	
387GB SFF-3 4k SSD for Linux	21L	EL4U			Both	Yes	No	
	22L				Both	Yes	No	
775GB GEN3 4K SSD for Linux	21L	EL4W			Both	Yes	No	
	22L				Both	Yes	No	
600GB 15k SAS SFF-3 Disk Drive	21L	ELDF			Both	Yes	No	
	22L				Both	Yes	No	
600GB 15K SAS SFF-2 Disk Drive	21L	ELDP			Both	Yes	No	
	22L				Both	Yes	No	
Qty 150 of #ELDP 600GB 15k HDD	21L	ELQ0			Both	Yes	No	
	22L				Both	Yes	No	
QTY 150 of #EL4S 77GB 4k SSD	21L	ELQS			Both	Yes	No	
	22L				Both	Yes	No	
Qty 150 of #EL4Q 387GB 4k SSD	21L	ELRQ			Both	Yes	No	
	22L				Both	Yes	No	
2TB Removable Disk Cartrdg-RDX	21L	EU2T			Both	Yes	No	
	22L				Both	Yes	No	

Description	Model	Feature	Purchase	Maint.	Both/	RP		
Machine type	Machine type	number	number	price	Charge	Support	CSU	MES
Asm in USA manufacturing plant								
	L4T	0984			Both	Yes		
Integrated Solution Packing	L4T	ECSS			Initial	N/A	No	
600GB 15K SAS SFF-2 Disk Drive	L4T	ELDP			Both	Yes	No	
Qty 150 of #ELDP 600GB 15k HDD	L4T	ELQ0			Both	Yes	No	
2 Port Async EIA 232 PCIe Adap	L4T	EN27			Both	Yes	No	
2TB Removable Disk Cartrdg-RDX	L4T	EU2T			Both	Yes	No	

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES
Asm in USA manufacturing plant						
	E1D	0984		Both	Yes	
Integrated Solution Packing						
	E1D	ECSS		Initial	N/A	No
#ESDJ Load Source Specify	571G					
	E1D	ELSJ		Both	Yes	No
#ESDN Load Source Specify	571G					
	E1D	ELSN		Both	Yes	No
PCIe LP 2 Port Async EIA 232 A						
	E1D	EN28		Both	Yes	No
571GB 15k SAS SFF-1 Disk Drive						
	E1D	ESDJ		Both	Yes	No
600GB 15k SAS SFF-1 Disk Drive						
	E1D	ESDK		Both	Yes	No
571GB 15k SAS SFF-2 Disk Drive						
	E1D	ESDN		Both	Yes	No
600GB 15k SAS SFF-2 Disk Drive						
	E1D	ESDP		Both	Yes	No
2TB Removable Disk Cartrdg-RDX						
	E1D	EU2T		Both	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES
Flexible Thermal Settings NEBS						
	22A	0709		Initial	N/A	No
Asm in USA manufacturing plant						
	22A	0984		Both	Yes	
DC Power Supply, 750 watt, DC						
	22A	EB3H		Initial	N/A	No
Integrated Solution Packing						
	22A	ECSS		Initial	N/A	No
Qty 150 of #ES0Q 387GB 4k SSD						
	22A	EQ0Q		Both	Yes	No
QTY 150 of #ES0S 775GB 4k SSD						
	22A	EQ0S		Both	Yes	No
Qty 150 of #ESDP 600GB 15k HDD						
	22A	EQDP		Both	Yes	No
387GB SFF-2 4k SSD AIX/Linux						
	22A	ES0Q		Both	Yes	No
775GB SFF-2 4k SSD AIX/Linux						
	22A	ES0S		Both	Yes	No
387GB SFF-3 4k SSD AIX/Linux						
	22A	ES0U		Both	Yes	No
775GB SFF-3 4k SSD AIX/Linux						
	22A	ES0W		Both	Yes	No
177GB 1.8" 4k SSD Read Intense						
	22A	ES0Y		Both	Yes	No
177 GB 1.8" SSD Read Intensive						
	22A	ES0Z		Both	Yes	No
600GB 15k SAS SFF-3 Disk Drive						
	22A	ESDF		Both	Yes	No
600GB 15k SAS SFF-2 Disk Drive						
	22A	ESDP		Both	Yes	No
2TB Removable Disk Cartrdg-RDX						
	22A	EU2T		Both	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES
Asm in USA manufacturing plant						
	41A	0984		Both	Yes	

	42A			
Integrated Solution Packing			Both	Yes
	41A	ECSS	Initial	N/A No
	42A		Initial	N/A No
PCIe Crypto Coprocessor	No	BSC		
	41A	EJ27	Both	Yes No
	42A		Both	Yes No
Trial Live Partition Mobility				
	41A	ELPM	Both	Yes No
	42A		Both	Yes No
#ES0H Load Source Specify	571G			
	41A	ELSE	Both	Yes No
	42A		Both	Yes No
#ESDN Load Source Specify	571G			
	41A	ELSN	Both	Yes No
	42A		Both	Yes No
#ES0R Load Source Specify	387G			
	41A	ELSR	Both	Yes No
	42A		Both	Yes No
#ES0T Load Source Specify	775G			
	41A	ELST	Both	Yes No
	42A		Both	Yes No
#ES0V Load Source Specify	387G			
	41A	ELSV	Both	Yes No
	42A		Both	Yes No
#ES0X Load Source Specify	775G			
	41A	ELSX	Both	Yes No
	42A		Both	Yes No
Qty 150 of #ES0Q 387GB	4k SSD			
	41A	EQ0Q	Both	Yes No
	42A		Both	Yes No
Qty 150 of #ES0R 387GB	4k SSD			
	41A	EQ0R	Both	Yes No
	42A		Both	Yes No
QTY 150 of #ES0S 775GB	4k SSD			
	41A	EQ0S	Both	Yes No
	42A		Both	Yes No
Qty 150 of #ES0T 775GB	4k SSD			
	41A	EQ0T	Both	Yes No
	42A		Both	Yes No
Qty 150 of #ESDN 571GB	15k HDD			
	41A	EQDN	Both	Yes No
	42A		Both	Yes No
Qty 150 of #ESDP 600GB	15k HDD			
	41A	EQDP	Both	Yes No
	42A		Both	Yes No
387GB SFF-2 4k SSD AIX/Linux				
	41A	ES0Q	Both	Yes No
	42A		Both	Yes No
387GB SFF-2 4k SSD for IBM i				
	41A	ES0R	Both	Yes No
	42A		Both	Yes No
775GB SFF-2 4k SSD AIX/Linux				
	41A	ES0S	Both	Yes No
	42A		Both	Yes No
775GB SFF-2 4k SSD for IBM i				
	41A	ES0T	Both	Yes No
	42A		Both	Yes No
387GB SFF-3 4k SSD AIX/Linux				
	41A	ES0U	Both	Yes No
	42A		Both	Yes No
387GB SSF-3 4k SSD for IBM i				
	41A	ES0V	Both	Yes No
	42A		Both	Yes No
775GB SFF-3 4k SSD AIX/Linux				
	41A	ES0W	Both	Yes No
	42A		Both	Yes No
775GB SFF-3 4k SSD for IBM i				
	41A	ES0X	Both	Yes No
	42A		Both	Yes No
177GB 1.8" 4k SSD Read Intense				
	42A	ES0Y	Both	Yes No
177 GB 1.8" SSD Read Intensive				
	42A	ES0Z	Both	Yes No

571GB 15k SAS SFF-3 Disk Drive						
	41A	ESDE		Both	Yes	No
	42A			Both	Yes	No
600GB 15k SAS SFF-3 Disk Drive						
	41A	ESDF		Both	Yes	No
	42A			Both	Yes	No
571GB 15k SAS SFF-2 Disk Drive						
	41A	ESDN		Both	Yes	No
	42A			Both	Yes	No
600GB 15k SAS SFF-2 Disk Drive						
	41A	ESDP		Both	Yes	No
	42A			Both	Yes	No
2TB Removable Disk Cartrdg-RDX						
	41A	EU2T		Both	Yes	No
	42A			Both	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type 8406	number	number	price	Charge	Support	CSU MES
2TB Removable Disk Cartrdg-RDX						
	70Y	EU2T		MES	Yes	No
	71Y			MES	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type 8408	number	number	price	Charge	Support	CSU MES
Asm in USA manufacturing plant						
	E8D	0984		Both	Yes	
Integrated Solution Packing						
	E8D	ECSS		Initial	N/A	No
PCIe Crypto Coprocessor G3	BSC					
	E8D	EJ28		Both	Yes	No
PCIe Crypto Coprocessor G4	BSC					
	E8D	EJ29		Both	Yes	No
#ESDJ Load Source Specify	571G					
	E8D	ELSJ		Both	Yes	No
#ESDN Load Source Specify	571G					
	E8D	ELSN		Both	Yes	No
2 Port Async EIA 232 PCIe Adap						
	E8D	EN27		Both	Yes	No
Qty 150 of #ESDN 571GB 15k HDD						
	E8D	EQDN		Both	Yes	No
Qty 150 of #ESDP 600GB 15k HDD						
	E8D	EQDP		Both	Yes	No
571GB 15k SAS SFF-1 Disk Drive						
	E8D	ESDJ		Both	Yes	No
600GB 15k SAS SFF-1 Disk Drive						
	E8D	ESDK		Both	Yes	No
571GB 15k SAS SFF-2 Disk Drive						
	E8D	ESDN		Both	Yes	No
600GB 15k SAS SFF-2 Disk Drive						
	E8D	ESDP		Both	Yes	No
2TB Removable Disk Cartrdg-RDX						
	E8D	EU2T		Both	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type 8412	number	number	price	Charge	Support	CSU MES

Asm in USA manufacturing plant						
	EAD	0984		Both	Yes	
Integrated Solution Packing						
	EAD	ECSS		Initial	N/A	No
PCIe Crypto Coprocessor G3	BSC					
	EAD	EJ28		Both	Yes	No
PCIe Crypto Coprocessor G4	BSC					

2 Port Async EIA 232 PCIe Adap	EAD	EJ29	Both	Yes	No
Qty 150 of #ESDK 571GB 15k HDD	EAD	EN27	Both	Yes	No
Qty 150 of #ESDP 600GB 15k HDD	EAD	EQDK	Both	Yes	No
600GB 15k SAS SFF-1 Disk Drive	EAD	EQDP	Both	Yes	No
600GB 15k SAS SFF-2 Disk Drive	EAD	ESDK	Both	Yes	No
2TB Removable Disk Cartrdg-RDX	EAD	ESDP	Both	Yes	No
	EAD	EU2T	Both	Yes	No

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	MES
Machine type 8956							
Asm in USA manufacturing plant					Minimum Initial/ Monthly MES/		
PureFlex System Express® Ind.	15X	0984		Both	Yes		
PureFlex Express Expansion Ind	15X	EFDA		Initial	N/A	No	
	15X	EFDF		Initial	N/A	No	

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	MES
Machine type 9109					Minimum Initial/ Monthly MES/		
Asm in USA manufacturing plant							
Integrated Solution Packing	RMD	0984		Both	Yes		
PCIe Crypto Coprocessor G3 BSC	RMD	ECSS		Initial	N/A	No	
PCIe Crypto Coprocessor G4 BSC	RMD	EJ28		Both	Yes	No	
#ESDJ Load Source Specify 571G	RMD	EJ29		Both	Yes	No	
#ESDN Load Source Specify 571G	RMD	ELSJ		Both	Yes	No	
2 Port Async EIA 232 PCIe Adap	RMD	ELSN		Both	Yes	No	
Qty 150 of #ESDN 571GB 15k HDD	RMD	EN27		Both	Yes	No	
Qty 150 of #ESDP 600GB 15k HDD	RMD	EQDN		Both	Yes	No	
571GB 15k SAS SFF-1 Disk Drive	RMD	EQDP		Both	Yes	No	
600GB 15k SAS SFF-1 Disk Drive	RMD	ESDJ		Both	Yes	No	
571GB 15k SAS SFF-2 Disk Drive	RMD	ESDK		Both	Yes	No	
600GB 15k SAS SFF-2 Disk Drive	RMD	ESDN		Both	Yes	No	
2TB Removable Disk Cartrdg-RDX	RMD	ESDP		Both	Yes	No	
	RMD	EU2T		Both	Yes	No	

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	MES
Machine type 9117					Minimum Initial/ Monthly MES/		
Asm in USA manufacturing plant							
Integrated Solution Packing	MMC	0984		Both	Yes		
PCIe Crypto Coprocessor G3 BSC	MMD	ECSS		Both	Yes		
	MMD	ECSS		Initial	N/A	No	

MMA	EJ28	MES	Yes	No
MMB		MES	Yes	No
MMC		MES	Yes	No
MMD		Both	Yes	No
PCIe Crypto Coprocessor G4 BSC				
MMB	EJ29	MES	Yes	No
MMC		MES	Yes	No
MMD		Both	Yes	No
#ESDJ Load Source Specify 571G				
MMD	ELSJ	Both	Yes	No
#ESDN Load Source Specify 571G				
MMD	ELSN	Both	Yes	No
2 Port Async EIA 232 PCIe Adap				
MMB	EN27	MES	Yes	No
MMC		MES	Yes	No
MMD		Both	Yes	No
Qty 150 of #ESDJ 571GB 15k HDD				
MMD	EQDJ	Both	Yes	No
Qty 150 of #ESDK 571GB 15k HDD				
MMD	EQDK	Both	Yes	No
Qty 150 of #ESDN 571GB 15k HDD				
MMD	EQDN	Both	Yes	No
Qty 150 of #ESDP 600GB 15k HDD				
MMD	EQDP	Both	Yes	No
571GB 15k SAS SFF-1 Disk Drive				
MMD	ESDJ	Both	Yes	No
600GB 15k SAS SFF-1 Disk Drive				
MMD	ESDK	Both	Yes	No
571GB 15k SAS SFF-2 Disk Drive				
MMD	ESDN	Both	Yes	No
600GB 15k SAS SFF-2 Disk Drive				
MMD	ESDP	Both	Yes	No
2TB Removable Disk Cartrdg-RDX				
MMB	EU2T	MES	Yes	No
MMC		MES	Yes	No
MMD		Both	Yes	No

Description Machine type	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ Monthly MES/	MES
PCIe Crypto Coprocessor G3 BSC								
FHA	EJ28				MES	Yes	No	
FHB					Both	Yes	No	
#ESDJ Load Source Specify 571G								
FHB	ELSJ				Both	Yes	No	
#ESDN Load Source Specify 571G								
FHB	ELSN				Both	Yes	No	
2 Port Async EIA 232 PCIe Adap								
FHB	EN27				Both	Yes	No	
Qty 150 of #ESDJ 571GB 15k HDD								
FHB	EQDJ				Both	Yes	No	
Qty 150 of #ESDK 571GB 15k HDD								
FHB	EQDK				Both	Yes	No	
Qty 150 of #ESDN 571GB 15k HDD								
FHB	EQDN				Both	Yes	No	
Qty 150 of #ESDP 600GB 15k HDD								
FHB	EQDP				Both	Yes	No	
571GB 15k SAS SFF-1 Disk Drive								
FHB	ESDJ				Both	Yes	No	
600GB 15k SAS SFF-1 Disk Drive								
FHB	ESDK				Both	Yes	No	
571GB 15k SAS SFF-2 Disk Drive								
FHB	ESDN				Both	Yes	No	
600GB 15k SAS SFF-2 Disk Drive								
FHB	ESDP				Both	Yes	No	

Description	Model number	Feature number	Purchase price	Maint.	Both/ Charge	RP Support	CSU	Minimum Initial/ Monthly MES/
Machine type	9179							MES
Asm in USA manufacturing plant								
	MHD	0984			Both	Yes		
Integrated Solution Packing								
	MHD	ECSS			Initial	N/A	No	
PCIe Crypto Coprocessor G3 BSC								
	MHB	EJ28			MES	Yes	No	
	MHC				MES	Yes	No	
	MHD				Both	Yes	No	
PCIe Crypto Coprocessor G4 BSC								
	MHB	EJ29			MES	Yes	No	
	MHC				MES	Yes	No	
	MHD				Both	Yes	No	
#ESDJ Load Source Specify 571G								
	MHD	ELSJ			Both	Yes	No	
#ESDN Load Source Specify 571G								
	MHD	ELSN			Both	Yes	No	
2 Port Async EIA 232 PCIe Adap								
	MHB	EN27			MES	Yes	No	
	MHC				MES	Yes	No	
	MHD				Both	Yes	No	
Qty 150 of #ESDJ 571GB 15k HDD								
	MHD	EQDJ			Both	Yes	No	
Qty 150 of #ESDK 571GB 15k HDD								
	MHD	EQDK			Both	Yes	No	
Qty 150 of #ESDN 571GB 15k HDD								
	MHD	EQDN			Both	Yes	No	
Qty 150 of #ESDP 600GB 15k HDD								
	MHD	EQDP			Both	Yes	No	
571GB 15k SAS SFF-1 Disk Drive								
	MHD	ESDJ			Both	Yes	No	
600GB 15k SAS SFF-1 Disk Drive								
	MHD	ESDK			Both	Yes	No	
571GB 15k SAS SFF-2 Disk Drive								
	MHD	ESDN			Both	Yes	No	
600GB 15k SAS SFF-2 Disk Drive								
	MHD	ESDP			Both	Yes	No	
2TB Removable Disk Cartrdg-RDX								
	MHB	EU2T			MES	Yes	No	
	MHC				MES	Yes	No	
	MHD				Both	Yes	No	

Feature conversions

Feature conversions for 8202-E4B adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	

Feature conversions for 8202-E4C adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto	EJ28 - PCIe Crypto	No	

Coprocessor No BSC
4765-001

Coprocessor Gen3 BSC
4765-001

Feature conversions for 8202-E4D adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	

Feature conversions for 8202-E4D disk features

From FC:	To FC:	Parts Returned	Purchase Price
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 8203-E4A to 8202-E4D adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	

Feature conversions for 8203-E4A adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	

Feature conversions for 8204-E8A adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	

Feature conversions for 8205-E6B adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	

Feature conversions for 8205-E6C adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	

Feature conversions for 8205-E6D adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	

Feature conversions for 8205-E6D disk features

From FC:	To FC:	Parts Returned	Purchase Price
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 8231-E1D disk features

From FC:	To FC:	Parts Returned	Purchase Price
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 8231-E2D disk features

From FC:	To FC:	Parts Returned	Purchase Price
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 8233-E8B adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	No	
EJ27 - PCIe Crypto Coprocessor No BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	

Feature conversions for 8268-E1D disk features

From FC:	To FC:	Parts Returned	Purchase Price
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 8408-E8D adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 8408-E8D disk features

From FC:	To FC:	Parts Returned	Purchase Price
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 8412-EAD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 8412-EAD disk features

From FC:	To FC:	Parts Returned	Purchase Price
EQDK - Quantity 150 of #ESDK (571GB 15K RPM SAS SFF-1 for AIX/Linux) ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	EQDP - Quantity 150 of #ESDP (600GB 15K RPM SAS SFF-2 for AIX/LINUX) ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 9109-RMD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9109-RMD disk features

From FC:	To FC:	Parts Returned	Purchase Price
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 9117-MMA to 9117-MMD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9117-MMA to 9179-MHD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9117-MMB adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9117-MMB to 9117-MMD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9117-MMC adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9117-MMC to 9117-MMD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9117-MMD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9117-MMD disk features

From FC:	To FC:	Parts Returned	Purchase Price
EQDJ - Quantity 150 of #ESDJ (571GB 15K RPM SAS SFF-1 for IBM i)	EQDN - Quantity 150 of #ESDN (571GB 15K RPM SAS SFF-2 for IBM i)	No	
EQDK - Quantity 150 of #ESDK (571GB 15K RPM SAS SFF-1 for AIX/Linux/i)	EQDP - Quantity 150 of #ESDP (600GB 15K RPM SAS SFF-2 for AIX/LINUX)	No	
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 9119-FHB disk features

From FC:	To FC:	Parts Returned	Purchase Price
EQDJ - Quantity 150 of #ESDJ (571GB 15K RPM SAS SFF-1 for IBM i)	EQDN - Quantity 150 of #ESDN (571GB 15K RPM SAS SFF-2 for IBM i)	No	
EQDK - Quantity 150 of #ESDK (571GB 15K RPM SAS SFF-1 for AIX/Linux/i)	EQDP - Quantity 150 of #ESDP (600GB 15K RPM SAS SFF-2 for AIX/LINUX)	No	
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

Feature conversions for 9179-MHB adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9179-MHB to 9179-MHD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	No	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC 4765-001	EJ29 - PCIe Crypto Coprocessor Gen4 BSC 4765-001	No	

Feature conversions for 9179-MHC adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC	EJ28 - PCIe Crypto Coprocessor Gen3 BSC	No	

4765-001	4765-001	
EJ28 - PCIe Crypto Coprocessor Gen3 BSC	EJ29 - PCIe Crypto Coprocessor Gen4 BSC	No
4765-001	4765-001	

Feature conversions for 9179-MHC to 9179-MHD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC	EJ28 - PCIe Crypto Coprocessor Gen3 BSC	No	
4765-001	4765-001		
EJ28 - PCIe Crypto Coprocessor Gen3 BSC	EJ29 - PCIe Crypto Coprocessor Gen4 BSC	No	
4765-001	4765-001		

Feature conversions for 9179-MHD adapter features

From FC:	To FC:	Parts Returned	Purchase Price
EJ29 - PCIe Crypto Coprocessor Gen4 BSC	EJ28 - PCIe Crypto Coprocessor Gen3 BSC	No	
4765-001	4765-001		
EJ28 - PCIe Crypto Coprocessor Gen3 BSC	EJ29 - PCIe Crypto Coprocessor Gen4 BSC	No	
4765-001	4765-001		

Feature conversions for 9179-MHD disk features

From FC:	To FC:	Parts Returned	Purchase Price
EQDJ - Quantity 150 of #ESDJ (571GB 15K RPM SAS SFF-1 for IBM i)	EQDN - Quantity 150 of #ESDN (571GB 15K RPM SAS SFF-2 for IBM i)	No	
EQDK - Quantity 150 of #ESDK (571GB 15K RPM SAS SFF-1 for AIX/Linux/i)	EQDP - Quantity 150 of #ESDP (600GB 15K RPM SAS SFF-2 for AIX/LINUX)	No	
ESDJ - 571GB 15K RPM SAS SFF-1 Disk Drive - 528 Block (IBM i)	ESDN - 571GB 15K RPM SAS SFF-2 Disk Drive - 528 Block	No	
ESDK - 600GB 15K RPM SAS SFF-1 Disk Drive - 5xx Block (IBM i)	ESDP - 600GB 15K RPM SAS SFF-2 Disk Drive - 5xx Block	No	

The following are features already announced for the IBM Power Systems 8202, 8205, 8231, 8233, 8234, 8236, 8246, 8247, 8248, 8261, 8268, 8284, 8286, 8408, 8412, 9109, 9117, 9119, 9125, and 9179 machine type:

Description	Model number	Feature number	Purchase price	Maint.	Both/ Charge	RP Support	Minimum MES/ CSU	Initial/ MES
Machine type 8202								
PCIe 2 Line WAN w/Modem								
	E4B	2893		Both	Yes	No		
	E4C			Both	Yes	No		
	E4D			Both	Yes	No		
PCIe2 LP 2-Port 4X IB QDR Adap								
	E4B	5283		Both	Yes	No		
	E4C			Both	Yes	No		
	E4D			Both	Yes	No		
PCIe 2-Port 4X IB QDR Adapt								
	E4C	5285		Both	Yes	No		
	E4D			Both	Yes	No		

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ MES
Machine type 8205							

PCIe 2 Line WAN w/Modem							
	E6B	2893		Both	Yes	No	
	E6C			Both	Yes	No	
	E6D			Both	Yes	No	
PCIe2 LP 2-Port 4X IB QDR Adap							
	E6B	5283		Both	Yes	No	
	E6C			Both	Yes	No	
	E6D			Both	Yes	No	
PCIe 2-Port 4X IB QDR Adapt							
	E6C	5285		Both	Yes	No	
	E6D			Both	Yes	No	

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ MES
Machine type 8231							

PCIe 2 Line WAN w/Modem							
	E2C	2893		Both	Yes	No	
	E2D			Both	Yes	No	
PCIe2 LP 2-Port 4X IB QDR Adap							
	E1C	5283		Both	Yes	No	
	E1D			Both	Yes	No	
	E2C			Both	Yes	No	
	E2D			Both	Yes	No	

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ MES
Machine type 8233							

PCIe 2 Line WAN w/Modem							
	E8B	2893		Both	Yes	No	

PCIe 2 Line WAN w/Modem							
	EMA	2893		Both	Yes	No	

PCIe 2 Line WAN w/Modem							
	EMA	2893		Both	Yes	No	
PCIe 2 Line WAN w/Modem							
	E8C	2893		Both	Yes	No	

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

PCIE 2 Line WAN w/Modem

L2T	2893	Both	Yes	No
PCIe2 LP 2-Port 4X IB QDR Adap				
L1C	5283	Both	Yes	No
L1D		Both	Yes	No
L1S		Both	Yes	No
L1T		Both	Yes	No
L2C		Both	Yes	No
L2D		Both	Yes	No
L2S		Both	Yes	No
L2T		Both	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

PCIe2 LP 2-Port 4X IB QDR Adap

21L	5283	Both	Yes	No
22L		Both	Yes	No
PCIe3 LP 2-Port 40GbE NIC RoCE				
21L	EC3A	Both	Yes	No
22L		Both	Yes	No

Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

PCIE 2 Line WAN w/Modem

L4T	2893	Initial	N/A	No
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Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

PCIE 2 Line WAN w/Modem

E4S	2893	Both	Yes	No
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Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

PCIe2 LP 2-Port 4X IB QDR Adap

E1D	5283	Both	Yes	No
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Description	Model	Feature	Purchase	Maint.	Both/	RP
Machine type	number	number	price	Charge	Support	CSU MES

PCIe2 LP 2-Port 4X IB QDR Adap

22A	5283	Both	Yes	No
PCIe3 LP 2-Port 40GbE NIC RoCE				
22A	EC3A	Both	Yes	No

Description	Model number	Feature number	Purchase price	Minimum Monthly MES/ Charge	Initial Both/ Support	RP CSU	MES
Machine type 8286							

PCIe 2 Line WAN w/Modem							
	41A	2893		Both	Yes	No	
	42A			Both	Yes	No	
PCIe 2-Port 4X IB QDR Adapt							
	41A	5285		Both	Yes	No	
	42A			Both	Yes	No	
PCIe3 2-Port 40GbE NIC RoCE							
	41A	EC3B		Both	Yes	No	
	42A			Both	Yes	No	

Description	Model number	Feature number	Purchase price	Minimum Monthly MES/ Charge	Initial Both/ Support	RP CSU	MES
Machine type 8408							

PCIe 2 Line WAN w/Modem							
	E8D	2893		Initial	N/A	No	
PCIe 2-Port 4X IB QDR Adapt							
	E8D	5285		Both	Yes	No	

Description	Model number	Feature number	Purchase price	Minimum Monthly MES/ Charge	Initial Both/ Support	RP CSU	MES
Machine type 8412							

PCIe 2-Port 4X IB QDR Adapt							
	EAD	5285		Both	Yes	No	

PCIe 2 Line WAN w/Modem							
	RMD	2893		Initial	N/A	No	
PCIe 2-Port 4X IB QDR Adapt							
	RMD	5285		Both	Yes	No	

PCIe 2 Line WAN w/Modem							
	RMD	2893		Initial	N/A	No	
PCIe 2-Port 4X IB QDR Adapt							
	RMD	5285		Both	Yes	No	

Description	Model number	Feature number	Purchase price	Minimum Monthly MES/ Charge	Initial Both/ Support	RP CSU	MES
Machine type 9109							

PCIe 2 Line WAN w/Modem							
	MMA	2893		Both	Yes	No	
	MMB			Both	Yes	No	
	MMC			Both	Yes	No	
	MMD			Both	Yes	No	
PCIe 2-Port 4X IB QDR Adapt							
	MMC	5285		Both	Yes	No	
	MMD			Both	Yes	No	

Description	Model number	Feature number	Purchase price	Maint. Charge	Both/ Support	RP CSU	Minimum Initial/ Monthly MES/
Machine type 9119							
PCIe 2 Line WAN w/Modem	FHB	2893		Both	No	No	
Machine type 9125							
PCIe2 LP 2-Port 4X IB QDR Adap	F2C	5283		Both	No	No	
Machine type 9179							
PCIe 2 Line WAN w/Modem	MHB	2893		Both	Yes	No	Minimum Initial/ Monthly MES/
	MHC			Both	Yes	No	
	MHD			Both	Yes	No	
PCIe 2-Port 4X IB QDR Adapt	MHC	5285		Both	Yes	No	
	MHD			Both	Yes	No	

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