



IBM Power Systems enhanced with new features

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At a glance

IBM® introduces a number of enhancements for Power® Systems:

- Faster, higher-capacity tape drive for the IBM Power 520, Power 550, and Power 750 -- the DAT320 160/320 GB Tape Drive
- New small form factor (SFF) DASD backplane (#8340) for the Power 520 and Power 550, which replaces the existing backplane (#8346) for new orders
- Environment Measuring Probe to provide additional machine room monitoring capability
- Productivity features for clients ordering systems, which automatically helps ensure redundant PDUs, redundant power supplies, and redundant power cords and appropriate length PDU cables within a rack

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

Compared to the DAT160 80/160 GB tape drive, the new DAT320 tape drive for entry servers has up to 100% more capacity, up to 75% better performance, and uses up to 50% less power. The DAT320 160/320 (#5661) stores up to 320 GB of data on a single cartridge using typical 2X hardware compression, a standard capability provided in the tape drive. It provides up to 160 GB of capacity without compression. Using 2X compression, its rated speed is up to 86 GB/hour, filling a DAT320 cartridge in about four hours. The drive can read/write both DAT320 and DAT160 cartridges, but cannot read the older technology DAT72 cartridge. The DAT320 can be placed in the half-high removable media bay in the POWER6™ 520/550 and POWER7 750.

The SFF DASD backplane, feature 8340, replaces feature 8346 when ordering an SFF backplane on the Power 520 (8203-E4A) and the Power 550 (8204-E8A). The new backplane provides equivalent function to the one it replaces but is also used with the Power 750 (8233-E8B) or Power 755 (8236-E8C). Both backplanes provide a high-function, high-availability 8 x 2.5-inch SFF DASD backplane with an external SAS port. The external SAS port on the feature 8340 backplane supports a single feature 5886 drawer attachment (with cable feature 3674 on the 8203-E4A and cable feature 3668 on the 8204-E8A/8233-E8B/8236-E8C). It also supports disk units within the CEC to be split into two distinct 4-disk groups (with cable feature 3670 on the 8203-E4A and cable feature 3669 on the 204-E8A/8233-E8B). The new backplane supports connection for a slim SATA DVD-ROM or DVD-RAM and a 5.25-inch half-high tape drive.

The Environmental Monitoring Probe (EMP) feature (#7118) enables remote monitoring of ambient temperature and humidity. The probe connects to an RJ45

connector on the Intelligent PDU+ (#7109). Temperature/humidity information can then be monitored by Active Energy Manager, or it can be monitored by a standard Web browser on a PC with access to the IP address of the feature 7109 PDU+. Feature 7118 ships one EMP unit and one meter (3.3 feet) Cat5 Ethernet cable.

The PDU/PWR and Power Cord Redundancy Assurance feature (#9459) facilitates matching up paired PDU, power supplies, and line cords for rack-level redundancy. Including feature 9459 on orders that include rack-mounted drawers will rectify the PDU, power supplies, and line cords' pairing for the configuration process and help prevent manufacturing interruptions for improper quantities. Feature 9459 is used on new 7014 rack orders, not MES orders. It is ordered on the 7014-S25, -T00, and -T42 racks associated with a POWER6 520, 550, 560, 570, or POWER7 750, 755, 770, or 780 server order. Feature 9459 can also be ordered with the 9119-FHA with a feature 0553 rack.

Power Cable - Drawer to IBM PDU, 200-240V/10A, feature (#6577) simplifies ordering of power cables for the server and I/O drawers located in the 7014-S25, -T00, and -T42 racks. With this feature, IBM Manufacturing will select an optimum PDU cable length (1.5 m, 2.7 m, or 4.2 m) to power the server and I/O drawers when both rack integration is specified and when a PDU (chargeable or no-charge) is included on the order. This helps ensure that a power cord is neither too long nor too short for the ordered configuration. Feature 6577 can be ordered on the Power 520, 550, 560, 570, 750, 755, 770, and 780. This feature is mandatory on initial order with factory integration features 4651-4666 and is not valid on an initial order with nonfactory integrated feature 4650. The feature is only used on new server orders and is not used on MES orders. Only the cables between the drawer and the PDU are included in feature 6577, and the power cords from the PDU to the wall/power source are ordered separately, as before. Feature 6577 can also be ordered with the 9119-FHA when a feature 0553 rack and a PDU are on the order.

Note that the following previously withdrawn features are being reintroduced on the 9110-51A server:

- 4.7 GB IDE Slimline DVD-RAM Drive (#1900)
- IDE Slimline DVD-ROM Drive (#1903)
- 36/72 GB 4 mm Internal Tape Drive (#1955)

Note that the following previously withdrawn Feature 6268 Power Supply, is being reintroduced on the 7311-D20 Expansion Drawer.

Key prerequisites

Refer to the sales manual for individual feature requirements.

Planned availability date

- February 19, 2010, for all features except feature 5661
- March 16, 2010, for feature 5661

Statement of general direction

IBM plans to provide upgrade paths in 2010 from the POWER6 Power 520 2- and 4-core servers to the next-generation POWER7 processor-based entry servers.

All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice. Any reliance on these statements of general direction is at the relying party's sole risk and will not create liability or obligation for IBM.

Product number

The following are newly announced features on the specific models of the IBM Power Systems 7014, 7042, 7311, 8203, 8204, 8234, 9110, 9117, 9119, and 9125 machine type:

Description	MT	Model number	Feature number
4.7 GB IDE Slimline DVD-RAM Drive	9110	51A	1900
IDE Slimline DVD-ROM Drive	9110	51A	1903
DAT320 160/320 GB Tape Drive	8203	E4A	5661
	8204	E8A	
Activation of 100 GB DDR2 Memory	9117	MMA	5684
	9119	FHA	
	9125	F2A	
Power Cable - Drawer to IBM PDU, 200-240v/10A	7042	CR5	6577
	7311	D20	
	8203	E4A	
	8204	E8A	
	8234	EMA	
	9117	MMA	
	9119	FHA	
Environmental Monitoring Probe	7014	B42	7118
		T00	
		T42	
	8203	E4A	
	8204	E8A	
	8234	EMA	
	9117	MMA	
	9119	FHA	
Enhanced DASD/Media Backplane for 2.5" DASD/SATA DVD/Tape with External SAS Port	8203	E4A	8340
	8204	E8A	
PDU/PWR and Power Cord Redundancy Assurance	7014	S25	9459
		T00	
		T42	
	9119	FHA	

The following are features already announced for the IBM Power Systems 9110 machine type:

Description	MT	Model number	Feature number
36/72 GB 4mm Internal Tape Drive	9110	51A	1955

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 are available to customers:

Feature conversions for 9406-570 to 9119-FHA processor features:

From FC:	To FC:	Return parts
7258 - 570 Full Enterprise Enable	4996 - Full #5250 Enterprise Enablement	No

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=110-014>

Publications

No publications are shipped with these features.

Services

Global Technology Services

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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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Select your country, and then select the product as the category.

Technical information

Planning information

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

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

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Terms and conditions

MES Discount Applicable

No. Equal to the volume commitment discount.

Field-installable features

Yes

Warranty period

This feature or features assume the same warranty or maintenance terms as the machine in which it is installed for the full warranty or maintenance period announced for such machine.

Customer setup

Yes, this product is customer setup except for feature number 7118 on machine type 9119, and contains Licensed Machine Code (LIC: 2).

Licensed Machine Code

Same license terms and conditions as designated 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 7014, 7042, 7311, 8203, 8204, 8234, 9110, 9117, 9119, 9125 machine type:

Description Machine type 7014	Model number	Feature number	Purchase price	Minimum Monthly Maint. charge	Initial/ MES/ Both/ Support	RP CSU MES
Environmental Monitoring Probe	B42	7118			Both	Yes No
	T00				Both	Yes No
	T42				Both	Yes No
PDU/PWR and Power Cord Redundancy Assurance	S25	9459			Initial	N/A No
	T00				Initial	N/A No
	T42				Initial	N/A No

Description Machine type 7042	Model number	Feature number	Purchase price	Minimum Monthly Maint. charge	Initial/ MES/ Both/ Support	RP CSU MES
Power Cable - Drawer to IBM PDU, 200-240V/10A	CR5	6577			Initial	N/A No

Description Machine type 7311	Model number	Feature number	Purchase price	Minimum Monthly Maint. charge	Initial/ MES/ Both/ Support	RP CSU MES
Power Cable - Drawer to IBM PDU, 200-240V/10A	D20	6577			Initial	N/A No

Description Machine type 8203	Model number	Feature number	Purchase price	Minimum Monthly Maint. charge	Initial/ MES/ Both/ Support	RP CSU MES
DAT320 160/320 GB Tape Drive	E4A	5661			Both	Yes No
Power Cable - Drawer to IBM PDU, 200-240V/10A	E4A	6577			Initial	N/A No
Environmental Monitoring Probe	E4A	7118			Both	Yes No
Enhanced DASD/Media Backplane for 2.5" DASD/SATA DVD/Tape with External SAS Port	E4A	8340			Both	Yes No

Description Machine type 8204	Model number	Feature number	Purchase price	Minimum Monthly Maint. charge	Initial/ MES/ Both/ Support	RP CSU MES
DAT320 160/320 GB Tape Drive	E8A	5661			Both	Yes No
Power Cable - Drawer to IBM PDU, 200-240V/10A	E8A	6577			Initial	N/A No
Environmental Monitoring Probe	E8A	7118			Both	Yes No
Enhanced DASD/Media Backplane for 2.5" DASD/SATA DVD/Tape with External SAS Port	E8A	8340			Both	Yes No

Description Machine type 8204	Model number	Feature number	Purchase price	Minimum Monthly Maint. charge	Initial/ MES/ Both/ Support	RP CSU MES
DAT320 160/320 GB Tape Drive	E8A	5661			Both	Yes No
Power Cable - Drawer to IBM PDU, 200-240V/10A	E8A	6577			Initial	N/A No
Environmental Monitoring Probe	E8A	7118			Both	Yes No
Enhanced DASD/Media Backplane for 2.5" DASD/SATA DVD/Tape with External SAS Port	E8A	8340			Both	Yes No

Description Machine type 8204	Model number	Feature number	Purchase price	Minimum Monthly Maint. charge	Initial/ MES/ Both/ Support	RP CSU MES
DAT320 160/320 GB Tape Drive	E8A	5661			Both	Yes No
Power Cable - Drawer to IBM PDU, 200-240V/10A	E8A	6577			Initial	N/A No
Environmental Monitoring Probe	E8A	7118			Both	Yes No
Enhanced DASD/Media Backplane for 2.5" DASD/SATA DVD/Tape with External SAS Port	E8A	8340			Both	Yes No

8203	E4A	7118	Enviromental Monitor Probe	\$280
8203	E4A	8340	Enhanced Media Backplane	\$799
8204	E8A	5661	DAT320 160/320 GB Tape	\$2,100
8204	E8A	6577	Power Cable Drw to IBM PDU	\$0
8204	E8A	7118	Enviromental Monitor Probe	\$280
8204	E8A	8340	Enhanced Media Backplane	\$799
8234	EMA	6577	Power Cable Drw to IBM PDU	\$0
8234	EMA	7118	Environmental Monitor Probe	\$280
9117	MMA	5684	Act of 100GB DDR2 Memory	\$32,500
9117	MMA	6577	Power Cable Drw to IBM PDU	\$0
9117	MMA	7118	Environmental Monitor Probe	\$366
9119	FHA	5684	Act of 100GB DDR2 Memory	\$32,500
9119	FHA	6577	Power Cable Drw to IBM PDU	\$0
9119	FHA	7118	Environmental Monitor Probe	\$366
9119	FHA	9459	PDU/PWR Cord Redundancy	\$0
9125	F2A	5684	Act of 100 GB DDR2 Memory	\$32,500

Minimum Monthly Maintenance Charge

Machine type	Model number	Feature number	Description	MMMC
8203	E4A	5661	DAT320 160/320 GB Tape	\$61
8204	E8A	5661	DAT320 160/320 GB Tape	\$61

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