



Installing Red Hat* Enterprise Linux 5*

Intel® Server Board S5000PALR



Abridged Recipe – visit www.intel.com/go/esaa to download complete version



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Pass-Through Certification

Pass-Through Certification refers to the ability for third-party systems to be granted the same certification status as models previously certified by Intel Corporation. Currently, Pass-Through Certification is only available to vendors who purchase Intel server boards and/or systems and Red Hat* Ready Business Partner, Advanced & Premier Program with Red Hat, Inc.

Red Hat Linux Pass-Through Hardware Requirements

Intel Corporation first performs an original model certification as described in the Red Hat Hardware Certification Policies. Subsequent pass-through system certifications of EPSP OEM must meet the following additional requirements:

- Pass-Through certifications must be performed on systems that are a subset of the components covered by testing completed in the original model certification.
- No features or hardware may be added or subtracted from a pass-through system that would impact the certification of the pass-through system.
- Each Pass-Through Certification must have a unique vendor, make, and model number that are not shared with any other hardware that would not be covered by the original certification.
- Each Pass-Through Certification must have a unique vendor specification URL or must utilize the equivalent OEM specification URL.

Reseller Steps to Receive Pass-Thru OS Certification

- Submit the vendor server model name/number that corresponds to the Intel server platform name listed in this recipe along with the specific URL for the vendor platform used in the recipe to: red.hat.linux@intel.com
- The vendor server model will be placed on the Red Hat certified hardware list

Hardware Components (Configuration 1)

Quantity	Item	Version/Model	Notes
1	Product name/ SKU	S5000PALR/ SR2500ALBRP	
	PBA #	D13607-801	
	BIOS ver	74	
	FRU/SDR	40	
	BMC	58	
	HSC	D25530-301 fw 2.05	
	OS	RHEL5	
	OS Kernel Version	2.6.18-8.el5xen	
	32 / 64 Bit	64	
	Test Kit Version	5.0.26	
2	Processor	2.33 GHz Quad-Core Intel® Xeon® processor	
	Processor Stepping	B-3	
32GB	Memory	Samsung 533 MHz	
1	On-Board SATA/IDE boot HD	IDE Maxtor* Maxline Pro 500* Model 7H500R0	
1	HD1 Make and Model	HDS728080PLA380 - LD0	
	HD1 F/W	A6BE	
1	HD2 Make and Model	HDS728080PLA380 - LD0	
	HD2 F/W	A6BE	
1	HD3 Make and Model	ST380013AS - LD1	
	HD3 F/W	3.00	
1	On-Board NIC 1 and Driver	embedded	
1	On-Board NIC 2 and Driver	embedded	
1	On-Board NIC 3 and Driver	embedded	

Table 1 – Intel® Server Board S5000PALR Configuration Hardware (Configuration 1)

(Configuration 2)

Quantity	Item	Version/Model	Notes
1	Product name/ SKU	S5000PALR/ SR1500ALSAS	
	PBA #	D13607-801	
	BIOS ver	74	

Quantity	Item	Version/Model	Notes
	FRU/SDR	40	
	BMC	58	
	HSC	N/A	
	OS	RHEL 5	
	OS Kernel Version	2.6.18-8.el5xen	
	32 / 64 Bit	32	
	Test Kit Version	5.0.26	
2	Processor	2.33 GHz Quad-Core Intel® Xeon® processor	
	Processor Stepping	B-3	
32GB	Memory	Samsung 533 MHz	
1	On-Board SATA/IDE boot HD	IDE Maxtor Maxline Pro 500 Model 7H500R0	
1	HD1 Make and Model	HDS728080PLA380 - LD0	
	HD1 F/W	A6BE	
1	HD2 Make and Model	HDS728080PLA380 - LD0	
	HD2 F/W	A6BE	
1	On-Board NIC 1 and Driver	embedded	
1	On-Board NIC 2 and Driver	embedded	
1	On-Board NIC 3 and Driver	embedded	
	On-Board SAS		
1	HD1 Make and Model	Boot drive- HDS728080pla380	
	HD1 F/W	A6BE	
1	HD2 Make and Model	WD2500	
	HD2 F/W	08-00C08	
1	HD3 Make and Model	WD2500	
	HD3 F/W	08-00C08	
	HD4 Make and Model	NA	
	HD 4 / FW	NA	
	HD5 Make and Model		
	HD 5 / FW		
	HD6 Make and Model		
	HD 6 / FW		
	Raid Configuration		
	Driver ver.	embedded	

Table 2 – Intel® Server Board S5000PALR Configuration Hardware (Configuration 2)

(Configuration 3)

Quantity	Item	Model/Version	Notes
1	Product name	S5000PALR/ SR2500ALBRP	
	PBA #	D13607-801	
	BIOS ver	74	
	FRU/SDR	40	
	BMC	58	
	HSC	D25530-301 fw 2.05	
	OS	RHEL5	
	OS Kernel Version	2.6.18-8.el5xen	
	32 / 64 Bit	32	
	Test Kit Version	5.0.26	
2	Processor	2.33 GHz Quad-Core Intel® Xeon® processor	
	Processor Stepping	B-3	
32GB	Memory	Samsung 533 MHz	
1	On-Board SATA/IDE boot HD	IDE Maxtor* Maxline Pro 500* Model 7H500R0	
1	HD1 Make and Model	HDS728080PLA380 - LD0	
	HD1 F/W	A6BE	
1	HD2 Make and Model	HDS728080PLA380 - LD0	
	HD2 F/W	A6BE	
1	HD3 Make and Model	ST380013AS - LD1	
	HD3 F/W	3.00	
1	On-Board NIC 1 and Driver	embedded	
1	On-Board NIC 2 and Driver	embedded	
1	On-Board NIC 3 and Driver	embedded	
	On-Board SAS		
	HD1 Make and Model		
	HD1 F/W		
	HD2 Make and Model		
	HD2 F/W		
	HD3 Make and Model		
	HD3 F/W		
	HD4 Make and Model		
	HD 4 / FW		
	HD5 Make and Model		

	HD 5 / FW		
	HD6 Make and Model		
	HD 6 / FW		
	Raid Configuration	All Logical drives Raid0	
	Driver ver.	Embedded	

Table 3 – Intel® Server Board S5000PALR Configuration Hardware (Configuration 3)

(Configuration 4)

Quantity	Item	Model/Version	Notes
1	Product name/SKU	S5000PALR/ SR1500ALSAS	
	PBA #	D13607-801	
	BIOS ver	74	
	FRU/SDR	40	
	BMC	58	
	HSC	N/A	
	OS	RHEL 5	
	OS Kernel Version	2.6.18-8.el5xen	
	32 / 64 Bit	32	
	Test Kit Version	5.0.26	
2	Processor	2.33 GHz Quad-Core Intel® Xeon® processor	
	Processor Stepping	B-3	
32GB	RAM	Samsung 533 MHz	
	On-Board SATA/IDE boot HD	IDE Maxtor* Maxline Pro 500* Model 7H500R0	
1	HD1 Make and Model	HDS728080PLA380 - LD0	
	HD1 F/W	A6BE	
1	HD2 Make and Model	HDS728080PLA380 - LD0	
	HD2 F/W	A6BE	
1	On-Board NIC 1 and Driver	embedded	
1	On-Board NIC 2 and Driver	embedded	
1	On-Board NIC 3 and Driver	embedded	
	On-Board SAS		
1	HD1 Make and Model	Boot drive - HDS728080pla380	
	HD1 F/W	A6BE	
1	HD2 Make and Model	WD2500	

	HD2 F/W	08-00C08	
1	HD3 Make and Model	WD2500	
	HD3 F/W	08-00C08	
1	HD4 Make and Model	NA	
	HD 4 / FW	NA	
	Driver ver.	embedded	

Table 4 – Intel® Server Board S5000PALR Configuration Hardware (Configuration 4)

(Configuration 5)

Quantity	Item	Model/Version	Notes
1	Product name/ SKU	S5000PALR/ SR1500ALSAS	
	PBA #	D13607-801	
	BIOS ver	74	
	FRU/SDR	40	
	BMC	58	
	HSC	N/A	
	OS	RHEL 5	
	OS Kernel Version	2.6.18-8.el5xen	
	32 / 64 Bit	64	
	Test Kit Version	5.0.26	
2	Processor	2.33 GHz Quad-Core Intel® Xeon® processor	
	Processor Stepping	B-3	
32GB	Memory	Samsung 533 MHz	
1	On-Board SATA/IDE boot HD	IDE Maxtor* Maxline Pro 500* Model 7H500R0	
1	HD1 Make and Model	HDS728080PLA380 - LD0	
	HD1 F/W	A6BE	
1	HD2 Make and Model	HDS728080PLA380 - LD0	
	HD2 F/W	A6BE	
1	On-Board NIC 1 and Driver	embedded	
1	On-Board NIC 2 and Driver	embedded	
1	On-Board NIC 3 and Driver	embedded	

	On-Board SAS		
1	HD1 Make and Model	Boot drive - HDS728080pla380	
	HD1 F/W	A6BE	
1	HD2 Make and Model	WD2500	
	HD2 F/W	08-00C08	
1	HD3 Make and Model	WD2500	
	HD3 F/W	08-00C08	
1	HD4 Make and Model	NA	
	HD 4 / FW	NA	
	Driver ver.	embedded	

Table 5 – Intel® Server Board S5000PALR Configuration Hardware (Configuration 5)

Software Used in the Installation

Dist. By	Description	File Name
	Red Hat* Enterprise Linux 5.0 Kernel 2.6.18-8.el5xen	Red Hat Enterprise Linux (sku# - IPP)

Table 4 - Software Bill of Materials

Development Tools (Optional)

Product	Description	Where to Buy
Intel® C++ Compilers for LINUX	The compiler automatically optimizes and parallelizes software to deliver rapid development and winning performance taking best advantage of the latest multi-core Intel® processor-based platforms.	http://www3.intel.com/cd/software/products/asmo-na/eng/compilers/278609.htm
Intel® Fortran Compiler for LINUX	The compiler automatically optimizes and parallelizes software to deliver rapid development and winning performance taking best advantage of the latest multi-core Intel® processor-based platforms.	http://www3.intel.com/cd/software/products/asmo-na/eng/compilers/279636.htm
Intel® Math Kernel Library	Highly optimized, extensively threaded math routines for scientific, engineering, and financial applications that require maximum performance.	http://www3.intel.com/cd/software/products/asmo-na/eng/266860.htm
Intel® Integrated Performance Primitives	Extensive library of multi-core-ready, highly optimized software functions for multimedia and data processing	http://www3.intel.com/cd/software/products/asmo-na/eng/perflib/ipp/buy/238658.htm
Intel® Threading Building Blocks	Intel's new C++ template-based runtime library that simplifies writing multithreaded applications for performance and scalability	http://www3.intel.com/cd/software/products/asmo-na/eng/294795.htm

Table 5 - Development Tools