

# Intel® Server System SR1695GPRX

## Spares/Parts List and Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server System SR1695GPRX.



Revision 1.2

Enterprise Platforms and Services Marketing

# ***Revision History***

July '10 - Rev 1.0 – Initial release

July '10 - Rev 1.1 – Complete UPC for all parts, add board spare

August '10 – Rev 1.2 – Added support for 6GB SAS Module

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER, AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

Intel products are not intended for use in medical, life saving, life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel server boards, server chassis, and processors may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Intel, Intel Xeon, Pentium, and the Intel logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

\*Other names and brands may be claimed as the property of others.

Copyright © 2010, Intel Corporation

# Product Overview

---

## Product Overview:

### 1.1 Product Descriptions – Overview

The Intel® Server System SR1695GPRX is available to order in 2 different varieties:

#### 1. Intel® Server System SR1695GPRX\* (with one AC PSU).

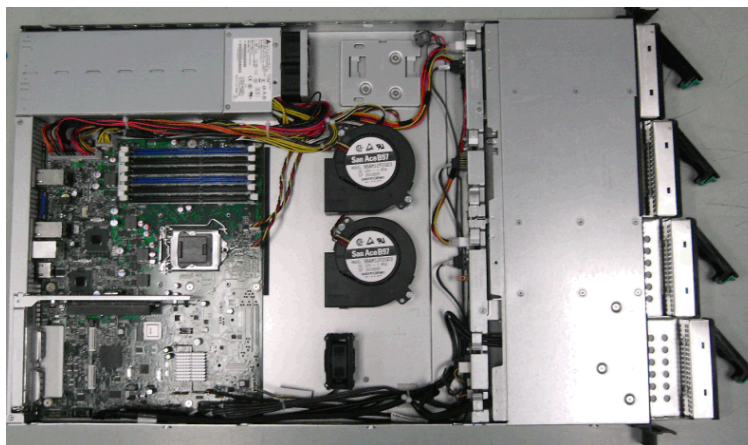
The Production Intel® Server System SR1695GPRX contain the following:

- One Intel® Server Board S3420GPRX
- Intel® Server Chassis SR1695 assembly
- One unit of 400W high-efficiency power supply (SKU: **SR1695GPRX1AC**)
- Power cage with Power Distribution Board inside
- System fan assembly, including two blowers and one rotor PCI Fan
- 1U PCI express riser with bracket
- Four HDD carriers, supporting four hot swap 3.5" or 2.5" SATA/SAS HDDs
- One passive processor heatsink
- One system air duct
- Front control panel, including front USB ports
- Cables (Front panel cable, Front USB cable, SATA cables, IPMB cable, SGPIO cable and SES cable)
- No AC power cords are included

\*Chassis will not be offered separately

\*\*Customer is required to provide Processors, DDR3 main memory and hard drives separately to configure a complete, bootable system.

Note: In addition to this document, there is a web based tool to assist customers in selecting components for Intel Server Products available here: <http://www.intel.com/go/serverconfigurator>



#### 2. Intel® Server System SR1695GPRX (with redundant two AC PSU).

The Production Intel® Server System SR1695GPRX contain the following:

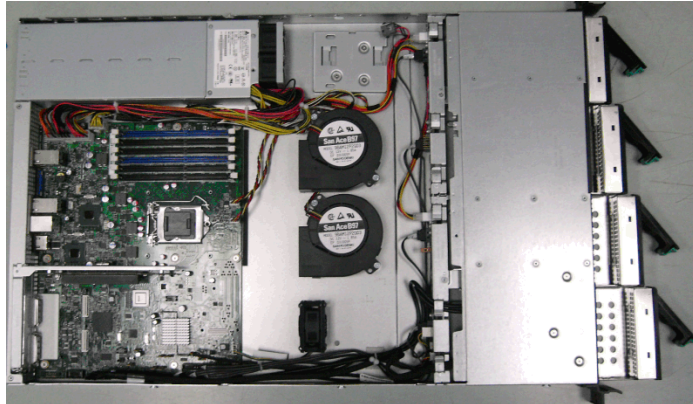
- One Intel® Server Board S3420GPRX

- Intel® Server Chassis SR1695 assembly
- Two units of redundant 400W high-efficiency power supply (SKU: **SR1695GPRX2AC**)
- Power cage with Power Distribution Board inside
- System fan assembly, including two blowers and one rotor PCI Fan
- 1U PCI express riser with bracket
- Four HDD carriers, supporting four hot swap 3.5" or 2.5" SATA/SAS HDDs
- One passive processor heatsink
- One system air duct
- Front control panel, including front USB ports
- Cables (Front panel cable, Front USB cable, SATA cables, IPMB cable, SGPIO cable and SES cable)
- No AC power cords are included

\*Chassis will not be offered separately

\*\*Customer is required to provide Processors, DDR3 main memory and hard drives separately to configure a complete, bootable system.

Note: In addition to this document, there is a web based tool to assist customers in selecting components for Intel Server Products available here: <http://www.intel.com/go/serverconfigurator>



# Production Order Codes

## 1.2 Board & System Order Codes

Product Code	MM#	UPC	Description
SR1695GPRX1AC	908799	00735858216043	Intel® Server System SR1695GPRX1PS including: <ul style="list-style-type: none"> <li>• One Intel® Server Board S3420GPRX</li> <li>• Intel® Server Chassis SR1695</li> <li>• 4 hot swap HDD carriers (supports both 2.5" &amp; 3.5")</li> <li>• 1 PCI Express 2.0 x8 riser</li> <li>• 1 high-efficient AC 400-watt PSU with redundant capability</li> <li>• SATA/SAS backplane to connect 4 HDDs</li> <li>• Two Blowers and one rotor system fans</li> <li>• Cabled front panel</li> <li>• 1 Intel® Thermal Solution</li> <li>• Quick Reference Label</li> <li>• Quick Start Users Guide</li> <li>• Resource CD</li> <li>• Attention Document</li> </ul>
SR1695GPRX1ACNA	907389		Same as SR1695GPRX1PS but includes North America Power cord
SR1695GPRX2AC	908800	00735858216050	Intel® Server System SR1695GPRX2PS including: <ul style="list-style-type: none"> <li>• One Intel® Server Board S3420GPRX</li> <li>• Intel® Server Chassis SR1695</li> <li>• 4 hot swap HDD carriers (supports both 2.5" &amp; 3.5")</li> <li>• 1 PCI Express 2.0 x8 riser</li> <li>• 2 redundant high-efficient AC 400-watt PSU</li> <li>• SATA/SAS backplane to connect 4 HDDs</li> <li>• Two Blowers and one rotor system fans</li> <li>• Cabled front panel</li> <li>• 1 Intel® Thermal Solution</li> <li>• Quick Reference Label</li> <li>• Quick Start Users Guide</li> <li>• Resource CD</li> <li>• Attention Document</li> </ul>
SR1695GPRX2ACNA	907568		Same as SR1695GPRX2PS but includes North America Power cord

Note that the boards are not shipped with a software CD, while the system does include a CD. The latest drivers and software can be downloaded from <http://support.intel.com> customers who require an Intel® Deployment Assistant CD may download an .ISO image and burn their own CDs.

### 1.3 Optional SR1695GPRX System Accessory & spare Order Codes:


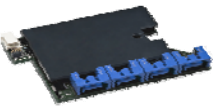



Product Code	MM#	UPC	MOQ	Description
S3420GPRX	905452	00735858214841	1	Spare boxed board for SR1695GPRX
FSR1695GPRXPS	908801	00735858216081	1	Spare 400-watt AC redundant PSU
FSR1695CAGE	909418	00735858216241	1	Spare Power Supply Cage includes PDB with Cables
AXXRMM3LITE	905659	00735858214469	1	Intel® Remote Management Module 3 Lite
AXXBASICRAIL	881096	00735858184748	1	Basic slide rail kit. Does not support Cable Management Arm
AXXHERAIL2	901082	00735858206549	1	Full extending Rail Kit
AXXRACKARM2	901084	00735858206563	1	Chassis cable management kit, compliant with AXXHERAIL2
AXXSATADVDRM	906872	00735858197663	1	Slim-line SATA DVD/CD-R drive accessory
FSR1695GPMKIT	909419	00735858216234	1	System maintenance kit accessory (includes: all cables, front panel/USB Board)
FSR1695FAN	909474	00735858216258	6	SR1695GPRX spare rotor PCI fan, PCI fan racks and PCI fan holder sponge.
AXXSR16XXRAIDCA	909656	00735858216265	10	Mini-SAS cable for Intel RAID add-in cards
FSR1690HDDCAR	903456	00735858211000	5	Spare HDD carrier for SR1695WB and SR1690WB supports both 2.5" and 3.5" HDD; MOQ is 5
FSR1690BP	903457	00735858211017	1	Spare hot swap HDD backplane for SR1695GPRX – single pack
FHJTBLOWER	900770	00735858191111	1	Blower spare kit
AXXPCIE16RISER	892597	00735858197441	1	1U PCI Express gen2 riser.
A1695GPRXBEZEL	909420	00735858216272	10	SR1695 Chassis Bezel








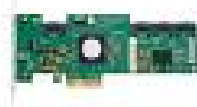
### 1.4 Intel® Xeon® Processor 3400 and Core™ i3 Series options:

Processor Family	Boxed Product Code	Product MM#	Clock Speed	L3 Cache	Max Memory Speed	Power
Intel® Xeon® Processor X3480	BX80605X3480	907883	3.06 GHz	8 MB	DDR3-800/1066/1333	95 W
Intel® Xeon® Processor X3470	BX80605X3470	903851	2.93 GHz	8 MB	DDR3-800/1066/1333	95 W
Intel® Xeon® Processor X3460	BX80605X3460	903850	2.80 GHz	8 MB	DDR3-800/1066/1333	95 W
Intel® Xeon® Processor X3450	BX80605X3450	903849	2.66 GHz	8 MB	DDR3-800/1066/1333	95 W
Intel® Xeon® Processor X3440	BX80605X3440	903842	2.53 GHz	8 MB	DDR3-800/1066/1333	95 W
Intel® Xeon® Processor X3430	BX80605X3430	903841	2.40 GHz	8 MB	DDR3-800/1066/1333	95 W
Intel® Xeon® Processor L3426	BX80605L3426	904689	1.86 GHz	8 MB	DDR3-800/1066/1333	45 W
Intel® Xeon® Processor L3406	BX80605L3406	905773	2.26 GHz	4 MB	DDR3-1066	30 W





Processor Family	Boxed Product Code	Product MM#	Clock Speed	L3 Cache	Max Memory Speed	Power
Intel® Core™ Processor i3-550	BX80616I3550	908035	3.20 GHz	4 MB	DDR3-1066/1333	73 W
Intel® Core™ Processor i3-540	BX80616I3540	904853	3.06 GHz	4 MB	DDR3-1066/1333	73 W
Intel® Core™ Processor i3-530	BX80616I3530	904852	2.93 GHz	4 MB	DDR3-1066/1333	73 W
Intel® Pentium® Processor G6950	BX80616G6950	904851	2.80 GHz	3 MB	DDR3-1066	73 W

## 1.5 Intel® RAID Controllers Options:

Picture	Product Code MM# UPC	MOQ	Description
	AXX4SASMOD 900946 00735858206372	1	Intel® SAS Entry RAID Module AXX4SASMOD provides 4 port pass through SAS, entry-level RAID 0/1/1E, and optional host RAID 5.: Includes 1 AXX4SASMOD module card; 3 snap standoffs, 4 SAS/SATA cables, Configuration Label and Quick Installation Guide
	AXXR0MBSASMR 901641 00735858208017	1	Intel® Integrated RAID Module ROMBSASMR provides 4 port full featured SAS/SATA RAID 0,1,5, 6 and striping capability for spans 10, 50, 60. 128 MB cache. Up to 16 SAS/SATA HDDs with expander enclosures. No PCI-E slot used. Optional backup battery AXXR5BBU3 should be ordered separately
	AXXRAKSW5 878958 00735858181860	5	Intel® RAID Activation Key AXXRAKSW5 enables SAS Host-based RAID 5 with AXX4SASMOD
	AXXR5BBU3 900954 00735858181853	1	Intel® RAID Smart Battery AXXR5BBU3, optional battery back up for use with AXXR0MBSASMR, AXXRAK18E and SRCSAS144E. RoHS Complaint
	SRCSASPH16I 896897 00735858201339	5	Intel® RAID Controller SRCSAS16PHI - PCIe x8, 16P SAS RAID Controller, 256MB 667MHz memory embedded.

Picture	Product Code MM# UPC	MOQ	Description
	SRCSASJV 892602 00735858196444	5	Intel® RAID Controller SRCASJV - PCIe x8, 8P SAS RAID Controller with Mux (ports can be configured as internal or external), ships with 512MB DIMM, supports up to 1GB ECC 667MHz DDR2 mini-DIMM.
	SRCSASBB8I 896943 00735858201346	5	Intel® RAID Controller SRCASBB8I - PCIe x8, 8P SAS RAID Controller, 256MB embedded memory, MD2 Low Profile, half length form factor.
	SRCSASRB 892598 00735858196437	5	Intel® RAID Controller SRCASRB - PCIe x4, 8P SAS RAID Controller, and 256 MB embedded memory.
	SRCSATAWB 892456 00735858196420	5	Intel® RAID Controller SRCATAWB - PCIe x4, 8 port SATA RAID Controller, 128MB embedded memory, 16 physical devices, >8 requires expander backplane.
	SRCSASLS4I 896952 00735858201353	5	Intel® RAID Controller SRCASLS4I - PCIe x8, 4P SAS RAID Controller, 128MB embedded memory, MD2 Low Profile, half length form factor.
	SASMF8I 896960 00735858201360	5	Intel® RAID Controller SASMF8I - PCIe x4, 8P SAS Controller with Intel Embedded Server RAID technology, Low Profile, half length form factor.
	SASUC8I 900176 00735858205115	5	Intel® RAID Controller SASUC8I - PCIe x8, 8P SAS Controller with entry-level HW RAID 0/1/1E/10E, low profile, half-length MD2 compliant form factor.
	SASWT4I 900267 00735858205108	5	Intel® RAID Controller SASWT4I - PCIe x4, 4P SAS Controller with entry-level HW RAID 0/1/1E/10E, low profile, half-length MD2 compliant form factor.



	AXXRMS2AF080 907853 00735858215732	5	Intel® Integrated RAID Module SRMS2AF080 provides 8 port entry-level SAS-2/6Gbps RAID 0,1,5 and striping capability for spans 10, 50. Includes cables. No BBU option.
	AXXRMS2AF040 907854 00735858215756	5	Intel® Integrated RAID Module SRMS2AF040 provides 4 port entry-level SAS-2/6Gbps RAID 0,1,5 and striping capability for spans 10, 50. Includes cables. No BBU option.
	AXXRMS2LL080 907855 00735858215749	5	Intel® Integrated RAID Module SRMS2LL080 provides 8 port basic RAID 0/1/1E and JBOD mode. Includes cables. No BBU option.
	AXXRMS2LL040 907856 00735858215763	5	Intel® Integrated RAID Module SRMS2LL040 provides 4 port basic RAID 0/1/1E and JBOD mode. Includes cables. No BBU option

## 1.6 Intel® System Management Software – Upgrade Order Codes:

The following Intel® System Management Software Upgrade SKUs are offered. Each SKU includes a Certificate of Authenticity (COA) that contains a product key for user to enter to upgrade:

Upgrades available to Microsoft\* System Center Essentials 2007

- Small Network Edition - This upgrade gives the user the ability to manage up to 5 Windows-based servers OSEs and 15 Windows-based client OSEs.
- Standard Edition- This upgrade gives the user the ability to manage up to 10 Windows-based servers OSEs and 50 Windows-based client OSEs.
- Upgrade to add 1 or 5 Server Management license - This upgrade gives the user the ability to manage 1 or 5 additional Windows-based server OSE.
- Upgrade to add 5 or 20 Client Management licenses - This upgrade gives the user the ability to manage 5 or 20 additional Windows-based client OSEs.

Intel® System Management Software – Upgrade Order Codes:

Product Code	UPC	MM	Description	Picture	MOQ
SMS2SSE2SNE	7 35858 19670 3	893177	Upgrade from 90 day trial Edition to Small Network Edition <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2SNE2STD	7 35858 19671 0	893221	Upgrade from Small Network Edition to Standard Edition <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2SSE2STD	7 35858 19672 7	893170	Upgrade from 90 day trial Edition to Standard Edition <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2CAL1S	7 35858 19675 8	893217	Microsoft* System Center Essentials 2007 Server Management License (1 Pack) <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2CAL5S	7 35858 19676 5	893218	Microsoft* System Center Essentials 2007 Server Management License (5 Pack) <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2CAL5C	7 35858 19673 4	893220	Microsoft* System Center Essentials 2007 Client Management License (5 Pack) <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2CAL20C	7 35858 19674 1	893219	Microsoft* System Center Essentials 2007 Client Management License (20 Pack) <b>Not included:</b> Software CDs are not included with upgrade.		1

## 1.7 VMware vSphere\* and vCenter\* Server SKUs

The following VMware vSphere SKUs are offered when purchasing a qualifying Intel® Server Board or Intel® Server System. Each SKU contains a software product activation code for user to enter to download software and install. As directed on the certificate, the end user must register the product activation code with VMware at <http://www.vmware.com/code/intel> within 30 days to access VMware Software, Support and Subscription Services.

### VMware vSphere\* and vCenter\* Server SKUs

- Essentials

This license activation code gives the user VMware vSphere\* 4 Essentials Bundle for 3 hosts (Max 2 processors per host and 6 cores per processor), with 1 year VMware Subscription.

- Essentials Plus

This license activation code gives the user VMware vSphere\* 4 Essentials Plus Bundle for 3 hosts (Max 2 processors per host and 6 cores per processor), with 1 year VMware Gold Support and Subscription.

- Standard

This license activation code gives the user VMware vSphere\* 4 Standard for 1 Processor (Max 6 cores per CPU), with 1 year VMware Gold Support and Subscription.

- Advanced

This license activation code gives the user VMware vSphere\* 4 Advanced for 1 Processor (Max 12 cores per CPU), with 1 year VMware Gold Support and Subscription.

- Enterprise Plus

This license activation code gives the user VMware vSphere\* 4 Enterprise Plus for 1 Processor (Max 12 cores per CPU), with 1 year VMware Gold Support and Subscription.

- VMware vCenter\* Server Standard for vSphere\*

This license activation code gives the user VMware vCenter\* Server 4 Standard for vSphere\* (Includes Orchestrator and Linked Mode), with 1 year VMware Gold Support and Subscription.

### VMware vSphere\* and VMware vCenter\* Standard – Order Codes:

Product Code	UPC	MM	Description	MOQ
VMW4ESS	7 35858 21272 4	904791	Software license activation code certificate for VMware vSphere* 4 Essentials Bundle for 3 hosts (Max 2 CPUs per host and 6 cores per CPU) with 1 year VMware Subscription.	1
VMW4ESSPLUS	7 35858 21273 1	904792	Software license activation code certificate for VMware vSphere* 4 Essentials Plus Bundle for 3 hosts (Max 2 CPUs per host and 6 cores per CPU) with 1 year VMware Gold Support and Subscription.	1
VMW4STD	7 35858 21274 8	904793	Software license activation code certificate for VMware vSphere* 4 Standard for 1 Processor (Max 6 cores per CPU) with 1 year VMware Gold Support and Subscription.	1

VMW4ADV	7 35858 21275 5	904797	Software license activation code certificate for VMware vSphere* 4 Advanced for 1 Processor (Max 12 cores per CPU) with 1 year VMware Gold Support and Subscription.	1
VMW4ENTPLUS	7 35858 21276 2	904800	Software license activation code certificate for VMware vSphere* 4 Enterprise Plus for 1 Processor (Max 12 cores per CPU) with 1 year VMware Gold Support and Subscription.	1
VMWVCSTD	7 35858 21277 9	904801	Software license activation code certificate for VMware vCenter* Server 4 Standard (includes Orchestrator and Linked Mode) with 1 year VMware Gold Support and Subscription.	1