



Intel® Server System R2600SR Product Family

Configuration Guide

A reference document used to identify available Intel integrated systems associated with the Intel® Server System R2600SR product family.

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Intel® Server Products and Solutions

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Document Revision History

Date	Revision	Changes
December 2017	1.0	Initial release.

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Table of Contents

1. Intel® Server System R2600SR Product Family Overview.....	7
1.1 Supported Processors.....	8
1.2 Supported Memory Modules	9
1.3 Supported Solid State Drives (SSD)	9
1.4 Additional Information.....	9
2. Intel® Server System R2600SR Product Family Hardware Overview.....	10
3. Server System Configuration Tables	14
3.1 Intel® Server System R2600SR Product Family 2U Rack-Mount Multi-Node System	14
Appendix A. Glossary of Terms.....	33

List of Figures

Figure 1. System top view with fan access panel.....	10
Figure 2. Compute node components.....	11
Figure 3. System front view showing the four compute nodes	12
Figure 4. System rear view showing the back panel.....	12
Figure 5. Intel® Server System R2600SR.....	14

List of Tables

Table 1. Intel® Xeon® processor Scalable family - feature comparison table.....	8
Table 2. Product family reference collaterals	9
Table 3. Intel® Server System R2600WSR product family features table	13
Table 4. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554600).....	15
Table 5. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554601).....	16
Table 6. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554602).....	17
Table 7. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554200).....	18
Table 8. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554201).....	19
Table 9. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554202).....	20
Table 10. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568600).....	21
Table 11. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568601).....	22
Table 12. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568602).....	23
Table 13. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568200).....	24
Table 14. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568201).....	25
Table 15. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568202).....	26
Table 16. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580600).....	27
Table 17. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580601).....	28
Table 18. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580602).....	29
Table 19. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580200).....	30
Table 20. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580201).....	31
Table 21. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580202).....	32

1. Intel® Server System R2600SR Product Family Overview

The Intel® Server System R2600SR product family is a set of fully configured L9 level systems. An L9 system includes all components necessary to make the system fully functional at first power-on.

The Intel® Server System R2600SR includes the following:

- (1) 2U System Chassis
- (1) Rack Mount Rail Kit
- (1) System Management Module (SMM)
- (2) 2000W AC System Power Supply with Cooling Fan
- (4) Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile
- (1) 10GBase-T Ethernet I/O Module
- (2) 80mm x 80mm Hot-Swap Cooling Fan
- (3) 60mm x 60mm Hot-Swap Cooling Fan
- (4) Compute Node
 - (8) Processors (2 per node)
 - (48) Memory (DIMM) (12 per node)
 - (4) Solid State Drive (SSD) (1 per node)

1.1 Supported Processors

The Intel® Server System R2600SR product family has support for the following processors from the Intel® Xeon® processor Scalable family (2 per node):

- Intel® Xeon® Platinum 81XX processor
- Intel® Xeon® Gold 61XX processor

XX = Intel defined processor SKUs

The table which follows shows the comparison of features between the two (2) processor types. The table identifies features the processor is capable of supporting. The architecture and design target of the server board may use a subset of these features.

Table 1. Intel® Xeon® processor Scalable family - feature comparison table

Feature	81xx Platinum	61xx Gold	Notes
# of Intel® UPI Links	3	3	Server board design supports 2 UPIs
UPI Speed	10.4 GT/s	10.4 GT/s	
Supported Topologies	2S-2UPI 2S-3UPI 4S-2UPI 4S-3UPI 8S-3UPI	2S-2UPI 2S-3UPI 4S-2UPI 4S-3UPI	
Node Controller Support	Yes	Yes	
# of Memory Channels	6	6	
Max DDR4 Speed	2666	2666	
Memory Capacity	768GB 1.5TB (Select SKUs)	768GB 1.5TB (Select SKUs)	Server board supports 768 GB max
RAS Capability	Advanced	Advanced	
Intel® Turbo Boost	Yes	Yes	
Intel® Hyper-Threading	Yes	Yes	
Intel® AVX-512 ISA Support	Yes	Yes	
Intel® AVX-512 - # of 512b FMA Units	2	2	
# of PCIe* Lanes	48	48	

Note: Previous generation Intel® Xeon® processors and heatsinks are not compatible with the compute nodes described in this document.

1.2 Supported Memory Modules

The Intel® Server System R2600SR product family has support for the following memory modules (12 per node):

- Registered DDR4 (RDIMM)
- Memory data transfer rate
 - DDR4 ECC RDIMM up to 2667
- DDR4 standard voltage of 1.2V

1.3 Supported Solid State Drives (SSD)

The Intel® Server System R2600SR product family has support for the following solid state drives (SSDs) (1 per node):

- Intel® SSD DC S4600 Series (480GB, 2.5in SATA 6Gb/s, 3D1, TLC)
- Intel® SSD DC S4600 Series (960GB, 2.5in SATA 6Gb/s, 3D1, TLC)
- Intel® SSD DC S4600 Series (1.9TB, 2.5in SATA 6Gb/s, 3D1, TLC)

1.4 Additional Information

For additional information about this family of products or any of their supported components, refer to the following resources available at:

<http://www.intel.com/support>.

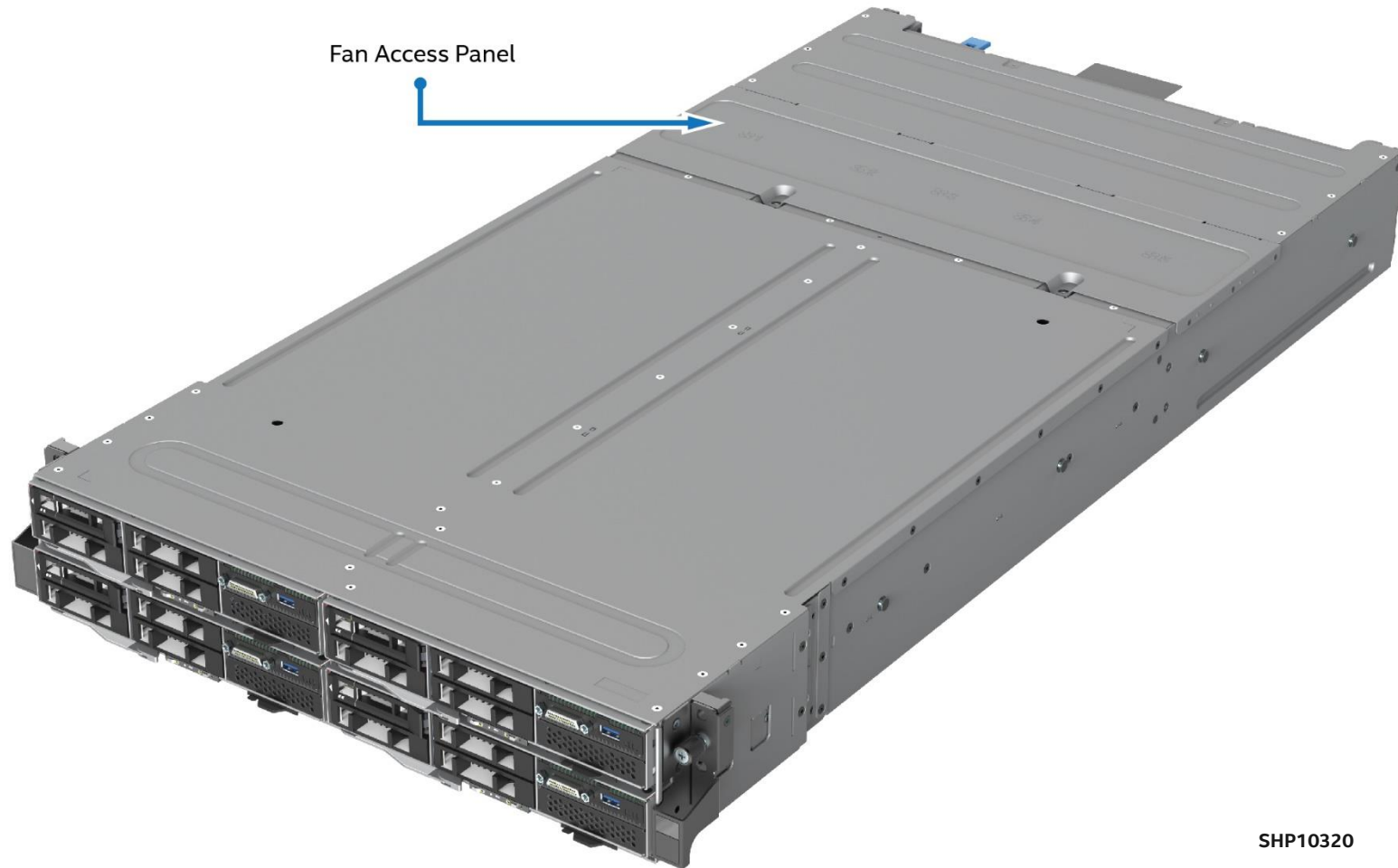
Table 2. Product family reference collaterals

For this Information or Software	Use this Document or Software
In-depth technical information about this product family	• Intel® Server System R2600SR Product Family Technical Product Specification • Intel® Server System R2600SR Product Family Node Messages and Code Reference Guide • Intel® Server System R2600SR Product Family System Management Module User Guide
System integration instructions and service guidance	• Intel® Server System R2600SR Product Family Set-up and Service Guide
Server configuration guidance and compatibility	• Intel® Server System R2600SR Product Family Configuration Guide

2. Intel® Server System R2600SR Product Family Hardware Overview

The following figures provide a visual overview of the Intel® Server System R2600SR.

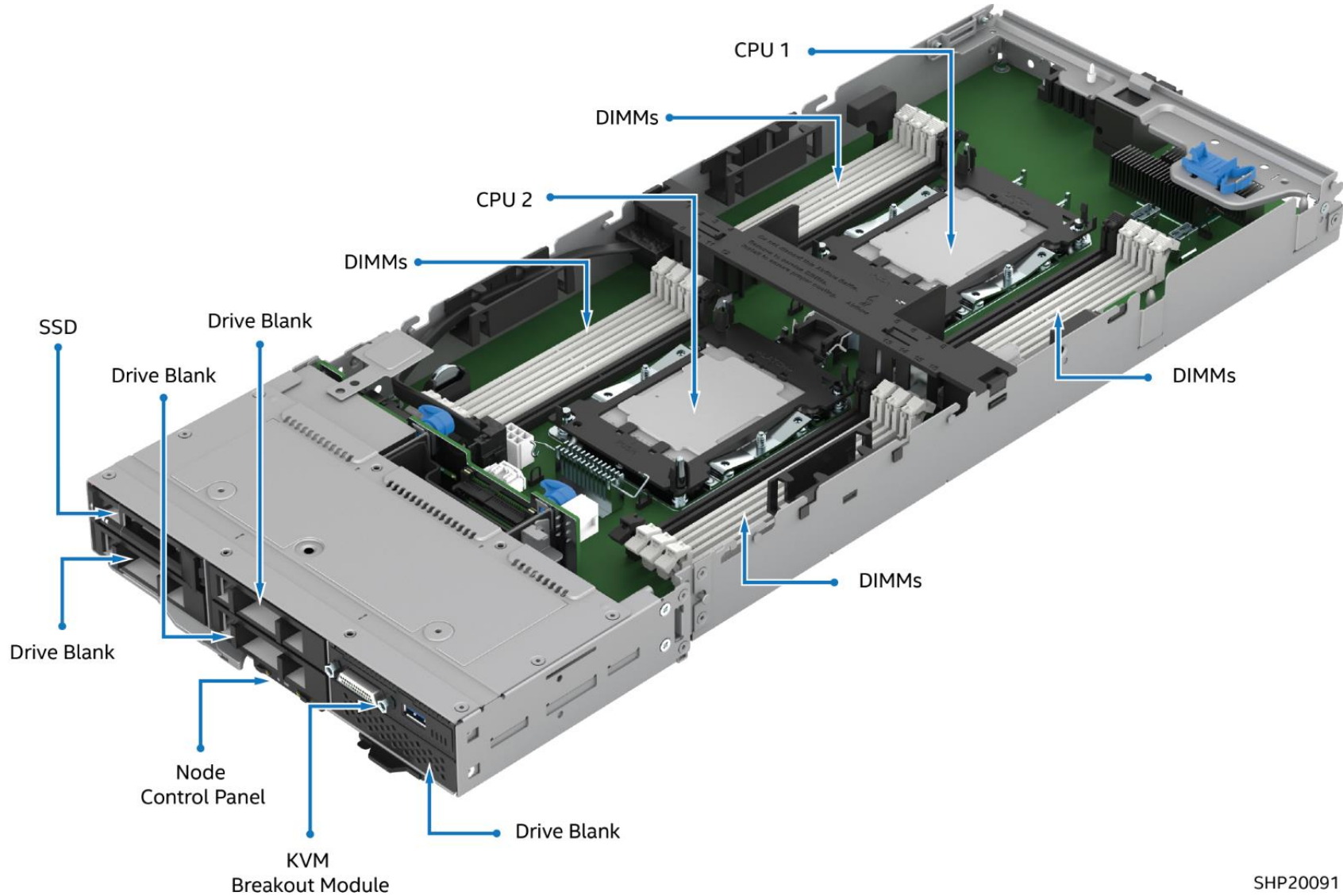
Figure 1 shows a top view of the system with the fan access panel.



SHP10320

Figure 1. System top view with fan access panel

Figure 2 shows the components of the compute node.



SHP20091

Figure 2. Compute node components

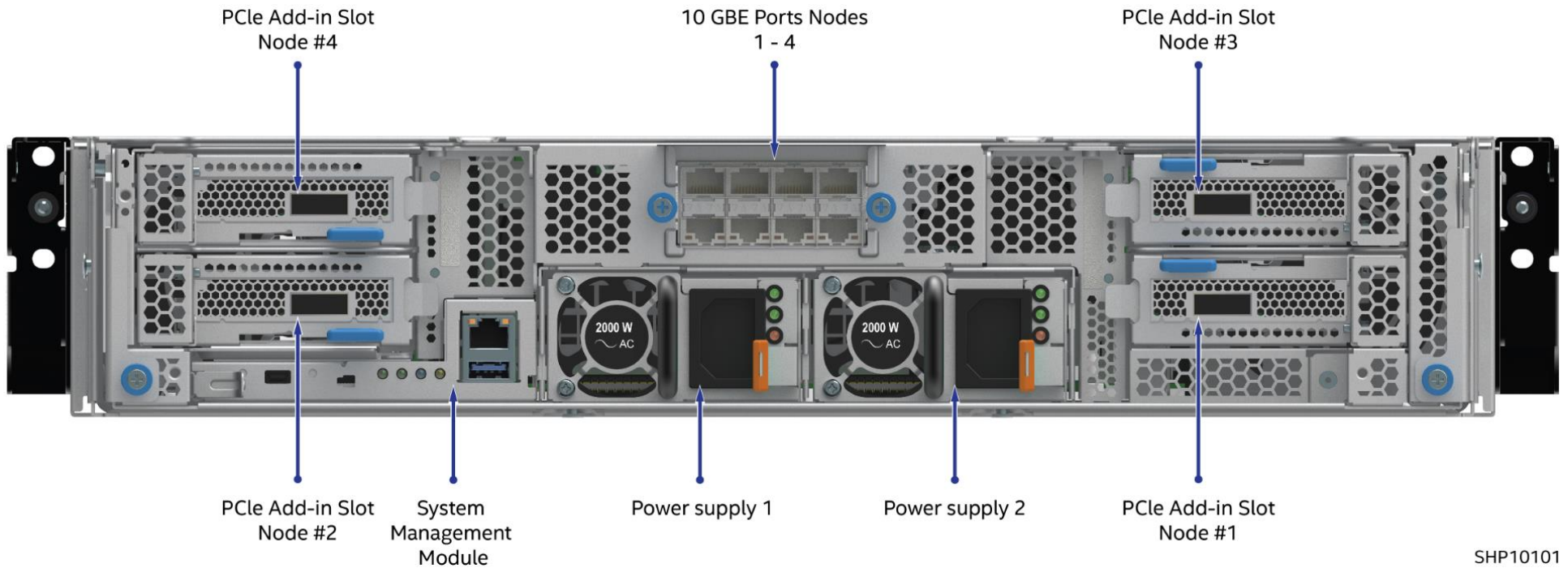
Figure 3 shows a front view of the system with four (4) pre-configured compute nodes installed.



SHP10310

Figure 3. System front view showing the four compute nodes

Figure 4 is a rear view of the system, including the System Management Module (SMM), Power Supply Units (PSU), PCIe cards, and 10 GBE Ports.



SHP10101

Figure 4. System rear view showing the back panel

Table 3 represents features common to all of the systems within the Intel® Server System R2600SR Product Family.

Table 3. Intel® Server System R2600WSR product family features table

Feature	Description
Chassis Type	2U Rack Mount Chassis
Maximum Supported Processor Thermal Design Power (TDP)	- Up to 200 watts on systems configured with Intel® Xeon® Gold 6154 Processors - Up to 205 watts on systems configured with Intel® Xeon® Platinum 8168 Processors or Intel® Xeon® Platinum 8180 Processors
Chipset	Intel® C624 Chipset
System Memory	DDR4 ECC RDIMM. Depending on system configuration, each node is pre-populated with: 12 - 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V), or 12 - 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V)
Intel® Omni-Path Fabric Support	Yes, via a PCIe add-in card installed in the rear of the system
Video	G200 graphics with 16 MB memory and 2D hardware accelerator integrated into the BMC Controller. Maximum resolution of 1920 x 1200, 32bpp at 60Hz
System Management Module (SMM)	- Integrated Systems Management - BMC Controller Management - Power and cooling control - Remote browser and CLI-based remote user interfaces via a dedicated 10/100/1000 Mb ethernet port - Hot-swappable - Four (4) system control LEDs: system error, identification, status, and system power (located on the SMM)
TPM Security Support	Trusted Platform Module (TPM) 2.0 (Rest of World) per node
Networking	8-port Ethernet I/O Module (EIOM) routes two (2) 10 GbE connections to each of the four (4) nodes
System Fan Support	- Three (3) managed 60mm hot-swap-capable system fans - Two (2) managed 80mm hot-swap-capable system fans - Integrated fans included with each installed Power Supply Unit (PSU)
Power Supply Support	The server system can have up to two (2) hot-swappable PSUs installed, providing support for the following power configurations: 1+0, 1+1 Redundant Power and 2+0 Combined Power. - AC 2000W 80 PLUS Platinum (supported in 220V AC electrical environments only) - Three (3) control LEDs: AC, DC, Error
System Storage	Intel® SSD DC S4600 Series drive-sized 480GB, 960GB, or 1.9TB, depending on system configuration.
PCI Expansion Slots	Four (4) PCIe x 16, 75W (one slot per node), pre-populated with the Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile Add-in card
Rack Mount Support	Rack Mount Rail Kit (included)

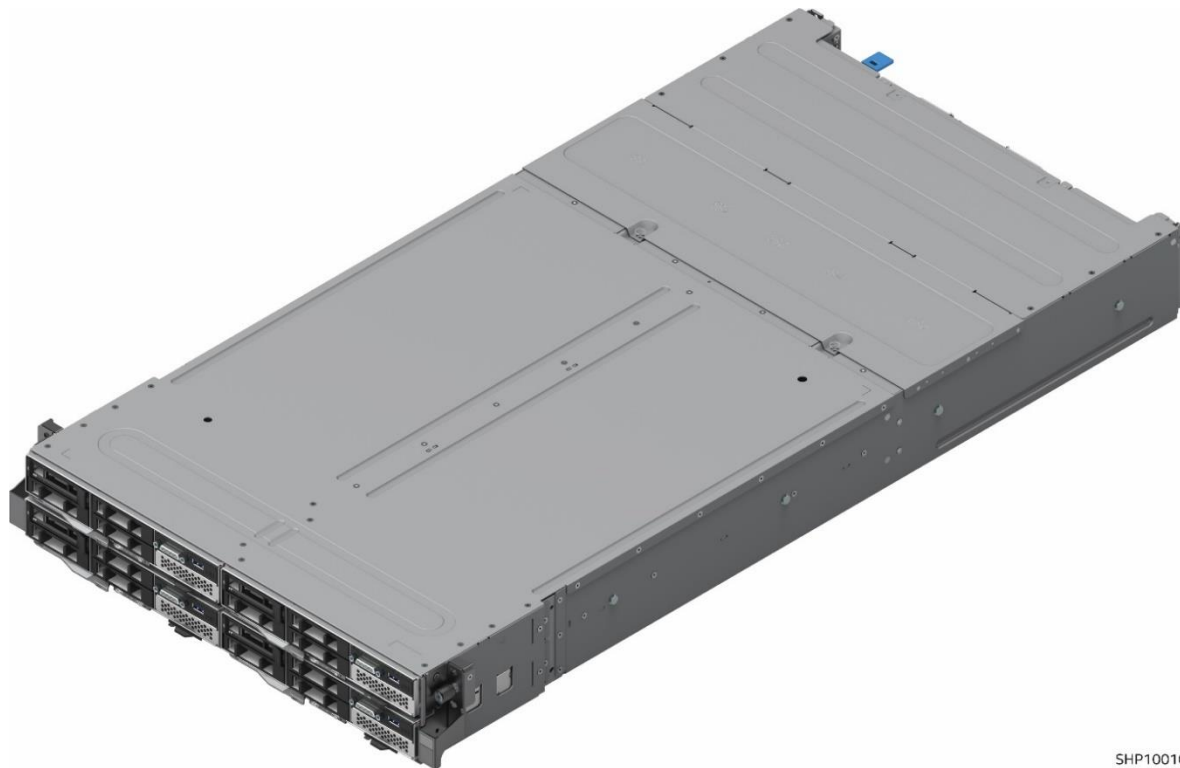
3. Server System Configuration Tables

The Intel® Server System R2600SR product family systems are represented by eighteen (18) different SKUs. Each SKU is shown in the product tables below. Each table also includes:

- Ship-along components of the specified system product code (product Bill of Material (BOM))
- Order code information required to order the specified system configuration, and
- System overview, including packaged and unpackaged weight and system and outer box dimensions.

3.1 Intel® Server System R2600SR Product Family 2U Rack-Mount Multi-Node System

As shown, the system comes as one integrated system with pre-configured components.



SHP10010

Figure 5. Intel® Server System R2600SR

Table 4. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554600)

Intel Product Code (iPC): LSP2D2ZS554600 	Order Code Information: MM# – 963493 UPC – 00735858361033 EAN – 5032037117241 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
<u>Intel product code LSP2D2ZS554600 includes the following:</u> (1) – 2U Chassis (1) - Rack Mount Rail Kit (1) - System Management Module (SMM) (2) - 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) - Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) - 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) - 80mm x 80mm x 80mm cooling fans (3) - 60mm x 60mm x 56mm cooling fans (4) - Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Gold 6154 Processor (24.75M Cache, 3.00GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V) (12 per compute node) • (4) - Intel® SSD DC S4600 Series (480GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 5. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554601)

Intel Product Code (iPC): LSP2D2ZS554601 	Order Code Information: MM# – 963494 UPC – 00735858361040 EAN – 5032037117258 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS554601 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Gold 6154 Processor (24.75M Cache, 3.00GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (960GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 6. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554602)

Intel Product Code (iPC): LSP2D2ZS554602 	Order Code Information: MM# – 963496 UPC – 00735858361057 EAN – 5032037117265 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS554602 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Gold 6154 Processor (24.75M Cache, 3.00GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (1.9TB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 7. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554200)

Intel Product Code (iPC): LSP2D2ZS554200 	Order Code Information: MM# – 963497 UPC – 00735858361064 EAN – 5032037117272 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS554200 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Gold 6154 Processor (24.75M Cache, 3.00GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (480GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 8. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554201)

Intel Product Code (iPC): LSP2D2ZS554201 	Order Code Information: MM# – 963498 UPC – 00735858361071 EAN – 5032037117289 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS554201 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – Rear Mount Shuttle x16 ASM (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Gold 6154 Processor (24.75M Cache, 3.00GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (960GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 9. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS554202)

Intel Product Code (iPC): LSP2D2ZS554202 	Order Code Information: MM# – 963499 UPC – 00735858361088 EAN – 5032037117296 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS554202 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Gold 6154 Processor (24.75M Cache, 3.00GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (1.9TB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 10. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568600)

Intel Product Code (iPC): LSP2D2ZS568600 	Order Code Information: MM# – 963500 UPC – 00735858361095 EAN – 5032037117302 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS568600 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) - System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8168 Processor (33M Cache, 2.70GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V) (12 per compute node) • (4) - Intel® SSD DC S4600 Series (480GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 11. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568601)

Intel Product Code (iPC): LSP2D2ZS568601 	Order Code Information: MM# – 963501 UPC – 00735858361101 EAN – 5032037117319 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
<u>Intel product code LSP2D2ZS568601 includes the following:</u> (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8168 Processor (33M Cache, 2.70GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink clips (2 per compute node) • (48) – 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (960GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 12. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568602)

Intel Product Code (iPC): LSP2D2ZS568602 	Order Code Information: MM# – 963502 UPC – 00735858361118 EAN – 5032037117326 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS568602 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8168 Processor (33M Cache, 2.70GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (1.9TB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 13. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568200)

Intel Product Code (iPC): LSP2D2ZS568200 	Order Code Information: MM# – 963503 UPC – 00735858362382 EAN – 5032037117937 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS568200 includes the following: (1) – 2U Chassis (1) - Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8168 Processor (33M Cache, 2.70GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (480GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 14. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568201)

Intel Product Code (iPC): LSP2D2ZS568201 	Order Code Information: MM# – 963504 UPC – 00735858361125 EAN – 5032037117333 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS568201 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8168 Processor (33M Cache, 2.70GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink clips (2 per compute node) • (48) – 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (960GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 15. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS568202)

Intel Product Code (iPC): LSP2D2ZS568202 	Order Code Information: MM# – 963505 UPC – 00735858361132 EAN – 5032037117340 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
<u>Intel product code LSP2D2ZS568202 includes the following:</u> (1) – 2U Chassis (1) - Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8168 Processor (33M Cache, 2.70GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (1.9TB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 16. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580600)

Intel Product Code (iPC): LSP2D2ZS580600 	Order Code Information: MM# – 963507 UPC – 00735858361149 EAN – 5032037117357 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS580600 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Units (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8180 Processor (38.5M Cache, 2.50GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (480GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 17. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580601)

Intel Product Code (iPC): LSP2D2ZS580601 	Order Code Information: MM# – 963529 UPC – 00735858361156 EAN – 5032037117364 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
<u>Intel product code LSP2D2ZS580601 includes the following:</u> (1) – 2U Chassis (1) - Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8180 Processor (38.5M Cache, 2.50GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (960GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 18. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580602)

Intel Product Code (iPC): LSP2D2ZS580602 	Order Code Information: MM# – 963530 UPC – 00735858361163 EAN – 5032037117371 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS580602 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8180 Processor (38.5M Cache, 2.50GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 16GB DDR4 2667 RDIMMs (2R x 8, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (1.9TB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 19. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580200)

Intel Product Code (iPC): LSP2D2ZS580200 	Order Code Information: MM# – 963531 UPC – 00735858361170 EAN – 5032037117388 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
<u>Intel product code LSP2D2ZS580200 includes the following:</u> (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8180 Processor (38.5M Cache, 2.50GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (480GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 20. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580201)

Intel Product Code (iPC): LSP2D2ZS580201 	Order Code Information: MM# – 963532 UPC – 00735858361187 EAN – 5032037117395 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS580201 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8180 Processor (38.5M Cache, 2.50GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (960GB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Table 21. Intel® Server System R2600SR – L9 Integrated 2U System (LSP2D2ZS580202)

Intel Product Code (iPC): LSP2D2ZS580202 	Order Code Information: MM# – 963533 UPC – 00735858361194 EAN – 5032037117401 MOQ – 1	Product Type: L9 Integrated System Chassis Form Factor: 2U Rack Mount Chassis Dimensions: L=892mm, W=488mm, H=87mm Packaged Gross Weight: 62.3 Kgs, 137.35 Lbs Un-packaged Net Weight: 55 Kgs, 121.2 Lbs (Maximum) Outer Box Dimensions: L=1087mm, W=587mm, H=285mm
Product Definition		
Intel product code LSP2D2ZS580202 includes the following: (1) – 2U Chassis (1) – Rack Mount Rail Kit (1) – System Management Module (SMM) (2) – 2000WAC Platinum Power Supply Unit (PSU) (2) – Power cords (1.5m, 10A/100-250V, C13 to IEC 320-C14) (4) – Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile (Installed) (1) – 10GB 8-port Ethernet I/O Module (EIOM) Base-T RJ45 (2) – 80mm x 80mm x 80mm cooling fans (3) – 60mm x 60mm x 56mm cooling fans (4) – Compute Node (includes the following pre-installed components) • (8) – Intel® Xeon® Platinum 8180 Processor (38.5M Cache, 2.50GHz) (2 per compute node) • (4) – 105mm CPU1 Heatsink (1 per compute node) • (4) – 85mm CPU 2 Heatsink (1 per compute node) • (8) – 4R Heatsink Clips (2 per compute node) • (48) – 32GB DDR4 2667 RDIMMs (2R x 4, 1.2V) (12 per compute node) • (4) – Intel® SSD DC S4600 Series (1.9TB, 2.5in SATA 6Gb/s, 3D1, TLC) (1 per compute node, mounted in a drive tray) • (16) – Drive Blanks (4 per compute node) • (4) – VGA/USB KVM Breakout Module (1 per compute node) • (4) – Node Control Panel (1 per compute node) (1) – KVM System Console Breakout Cable		

Appendix A. Glossary of Terms

Term	Definition
AC	Alternating Current (current repeatedly changes direction)
BMC	Baseboard Management Controller
BIOS	Basic Input/Output System
CPU	Central Processing Unit
DDR4	Double-data Rate 4
DIMM	Dual In-line Memory Module. A plug-in memory module with signal and power pins on both sides of the internal printed circuit board (front and back).
EAN	European Article Number, also known as International Article Number (Barcode)
ECC	Error Correcting Code
EIOM	Ethernet I/O Module
FMA	Floating-point Multiply Add
FP	Front Panel
FRU	Field Replaceable Unit
GB	Gigabyte
GBE	Gigabit Ethernet
HDD	Hard Disk Drive
iPC	Intel Product Code
ISA	Instruction Set Architecture
KVM	Keyboard/Video/Mouse (An attachment that mimics those devices and connects them to a remote I/O user)
LAN	Local Area Network
LED	Light-Emitting Diode
MB	Megabyte
MM#	Master Material Order Number/Material Management Number
MOQ	Minimum Order Quantity
PCIe*	Peripheral Component Interconnect Express* (an updated form of PCI offering better throughput and error management)
PSU	Power Supply Unit
RAS	Reliability, Availability, and Serviceability
RDIMM	Registered DIMM (also called buffered) (Memory modules have an address buffer register between the SDRAM modules and the system's memory controller.)
SATA	Serial ATA (High-speed serial data version of the disk ATA interface)
SKU	Stock-Keeping Unit
SMM	System Management Module

Intel® Server System R2600SR Configuration Guide

SSD	Solid State Device
TDP	Thermal Design Power
TLC	Triple-level Cell Flash
TPM	Trusted Platform Module
TPS	Technical Product Specification
UEFI	Unified Extensible Firmware Interface
UPI	Intel® UltraPath Interconnect
UPC	Universal Product Code
USB	Universal Serial Bus (standard serial expansion bus meant for connecting peripherals)
VGA	Video Graphics Array
VPD	Vital Product Data
XCC	BMC Controller