INTEL® SERVER SYSTEMS

Based on Intel’s most innovative technologies with Intel world-class validation, compatibility, certification, warranty and support. Reliable solutions made easy.

FEATURE-RICH INTEL® SERVER SYSTEMS FOR PERFORMANCE, RELIABILITY AND SECURITY

Customers want data center products designed for outstanding performance and reliability that will address their unique needs. With Intel® Server Systems featuring the latest Intel® Xeon® processor families you can count on trusted performance, quality and reliability to help solve the most complex business challenges.
### Intel® Server System S9200WK Data Center Block for HPC

#### INTEL® SERVER SYSTEM S9200WK: NEXT GENERATION INTEL DATA CENTER BLOCK FOR HPC

The Intel® Server System S9200WK product family is a purpose built, performance-optimized data center block ideal for use in High Performance Computing and Artificial Intelligence applications. Designed for the Intel® Xeon® Platinum 9200 Processors with up to 24 DDR4 DIMM slots per compute module, the Intel® Server System S9200WK product family maximizes processor and memory bandwidth to provide leadership performance for the most demanding compute use.

#### DESCRIPTION

- Designed for the Intel® Xeon® Platinum 9200 Processors with up to 24 DDR4 DIMM slots per compute module, the Intel® Server System S9200WK product family maximizes processor and memory bandwidth to provide leadership performance for the most demanding compute use requirements.

#### TARGET MARKET

- High Performance Computing

#### KEY FEATURES

- **Maximum Intel® Xeon® Platinum 9200 Processors Performance**
  - Leadership CPU performance per socket with Intel’s highest core count, Intel® Xeon® Platinum 9200 Processors
  - Double the memory bandwidth for memory-intensive workloads with 12 memory channels per CPU, 24 memory channels per compute module
  - New Intel® DL Boost Instructions for data analytics greatly accelerates inference performance
  - Multi-Chip packaging optimized for density and performance

- **Density Optimized 2U Rack Server with Air-Cooled and Liquid-Cooled Options**
  - Up to four compute modules per 2U chassis which can support multiple compute module types in a single chassis
  - 2 CPU compute module design with advanced cooling technology for high flow rate air cooled or liquid cooling for CPUs, VRs, DIMMs, and memory VRs for high heat capture ratio
  - Up to 350W processor TDP for high performance workloads in a 2U air cooled chassis, up to 400W processor TDP with liquid-cooled versions
  - Up to 2 x16 PCIe slots in 1U compute modules, up to 4 x16 PCIe slots in 2U compute modules for network expansion options
  - Support for 2x M.2 SATA/NVMe storage devices per 1U compute module, up to 2x M.2 SATA/NVMe and 2x U.2 NVMe storage devices per 2U compute module
  - Hot-swappable compute modules, storage, fans, and power supplies

- **Form Factor**
  - 2U rack enclosure; Up to 4 independent warm-swap compute modules

- **CPU**
  - Intel® Xeon® Platinum 9200 Processors up to 56 cores

- **Memory**
  - DDR4 2933 MT/s DIMMs, up to 96x DIMMs per DCB (24 DIMMs per compute module) @ 1DPC
  - Supports 8GB to 128GB DIMM options, number and capacity configurable

- **Storage**
  - Up to 8x M.2 SSDs per DCB (2x per compute module with 1U compute module
  - Up to 4x M.2 SSDs & 4x hot-swap U.2 NVMe SSDs with 2U Compute Modules). M.2 and U.2 number and capacity configurable

- **Power Supply**
  - 3x hot-swap CRPS 2100W (Platinum) or 1600W (Titanium) PSUs

- **Ethernet**
  - Integrated 1Gbase-T RJ45 (two ports per compute module)
  - Optional shared 1Gbase-T RJ45 management port chassis card

For the latest product SKUs and specifications, visit [ark.intel.com](http://ark.intel.com)
## Intel® Server System S9200WK Data Center Block for HPC

<table>
<thead>
<tr>
<th>COOLING</th>
<th>Available with high flow rate air-cooling or integrated liquid-cooling options</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/O</td>
<td>2 x 16 Gen3 PCIe slots per 1U compute module; 4 x 16 Gen3 PCIe slots per 2U compute module for high-speed networking support</td>
</tr>
<tr>
<td>MANAGEABILITY</td>
<td>Dedicated, consolidated Management Module</td>
</tr>
<tr>
<td>SECURITY &amp; SERVICEABILITY</td>
<td>TPM 2.0 (optional); Hot-swappable/redundant fans, and PSUs; light path diagnostic LEDs</td>
</tr>
</tbody>
</table>
## Intel® Server Systems Supporting the Intel® Xeon® Processor Scalable Family

### INTEL® SERVER SYSTEMS S2600BP BASED ON THE INTEL® SERVER BOARD S2600BP FAMILY — DENSITY OPTIMIZED SYSTEM ENABLING NEXT-GEN PERFORMANCE

The Intel® Server Board S2600BP product family is a purpose-built, rack-optimized server board ideal for use in hyper-converged, data analytics, storage, cloud and high performance computing applications. Designed to support the 2nd generation Intel® Xeon® processor Scalable family and up to 16 DDR4 DIMM slots per server board (eight DIMMs per processor), the S2600BP family maximizes memory and processor bandwidth to meet demanding compute use requirements.

### DESCRIPTION

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purpose Built for Outstanding Compute Density Purpose built for breakthrough performance, compute density, high-speed networking and I/O with stability and increased uptime</td>
<td></td>
</tr>
</tbody>
</table>

### TARGET MARKET

- High Performance Computing (HPC), Hyper Converged Infrastructure (HCI), Cloud, Storage

### SERVER BOARD INCLUDED

- S2600BPBR
- S2600BPSR
- S2600BPQR

### PROCESSOR SUPPORT,† MAX TDP

- Up to two 2nd Gen Intel® Xeon® processor Scalable family
- Support for 2nd generation Intel® Xeon® processor family with Intel® Omni-Path Architecture integrated fabric connectors—One 100 Gb/s port per processor
- 165 W – board
- 140 W/165 W † – chassis

### PCI CONFIGURATION OPTIONS

- **Riser Slot 1 (CPU1):** x16 PCIe* 3.0 lanes (Riser slot 1 not available on S2600BPQR)
  - HNS2600BPBR/HNS2600BPS24R: Default: Video adapter; Optional: One PCIe* Slot x16 elec/x16 mech low-profile cards only
  - HNS2600BPLCR/HNS2600BPLC24R: Not Available with AXXBPLCKIT installed (required accessory)
  - HNS2600BPSR/HNS2600BPS24R: Default: Video adapter; Optional: Support for Intel® Omni-Path fabric through carrier card option only—no PCIe* slot support
  - HNS2600BPSQR/HNS2600BPQ24R: Default: Video adapter; Optional: Support for Intel® Omni-Path fabric through carrier card option only—no PCIe* slot support

- **Riser Slot 2 (CPU1):** x24 PCIe 3.0 lanes; One PCIe* slot x16 elec/x16 mech low-profile cards only

- **Riser Slot 4 (CPU2):** x24 PCIe 3.0 lanes; One PCIe* slot x16 elec/x16 mech low-profile cards only

### MEMORY CAPACITY

- 16 DIMM slots (eight per CPU) – DDR4 RDIMM/LRDIMM, Up to 29331 MT/s, 1.2V and Intel® Optane™ DC Persistent Memory

### MODULE UPGRADES

- Up to four

### INTEL® TRANSPARENT SUPPLY CHAIN

- Supported

### WARRANTY

- 3-year limited warranty or optional 5-year extended warranty

† Note: 165 W TDP supported in enhanced air cooled Intel® Server Chassis H2204XXLRE only.

For the latest product SKUs and specifications, visit [ark.intel.com](http://ark.intel.com)
Intel® Server Systems Supporting the Intel® Xeon® Processor Scalable Family

INTEL® COMPUTE MODULE HNS2600BP FAMILY

Dimensions
716 x 269 x 158 mm

System Cooling
HNS2600BPBLCR / HNS2600BPBLC24R: Liquid Cooling Compatible¥

Power Supply
Two x 2130 W AC common redundant power supply (CRPS); 80 PLUS® Platinum

Thermal Solution
HNS2600BPBLCR / HNS2600BPBLC24R: Liquid Cooling Compatible¥

PCI Riser Slots
Riser Slot 1 (CPU1): x16 PCIe® 3.0 lanes (Riser slot 1 not available on S2600BPQR)
- HNS2600BPB/HNS2600BPB24R: Default; Video adapter; Optional: One PCIe® slot x16 elec/x16 mech low-profile cards only
- HNS2600BPBLCR/HNS2600BPBLC24R: Not Available with AXXBPLCKIT installed (required accessory)
- HNS2600BPBR/HNS2600BPB24R: Default; Video adapter; Optional: Support for Intel® Omni-Path fabric through carrier card option only—no PCIe® slot support
- HNS2600BPQR/HNS2600BPQ24R: Default; Video adapter; Optional: Support for Intel® Omni-Path fabric through carrier card option only—no PCIe® slot support

Riser Slot 2 (CPU1): x2 PCIe 3.0 lanes; One PCIe® slot x16 elec/x16 mech low-profile cards only
Riser Slot 3 (CPU2) not available with Bridge Board installed; x24 PCIe 3.0 lanes
Riser Slot 4 (CPU2) not available with Bridge Board installed; x16 PCIe 3.0 lanes

Additional Expansion
Bridge Board Slot
Server Management:
- Integrated Baseboard Management Controller, IPMI 2.0 compliant, Redfish support
- One Dedicated R45 Management Port
- One 2x4 pin header for optional Intel® Remote Management Module 4 Lite (Intel® RMM4 Lite 2) with support for Remote KVM and
- Onboard LEDs: system status, system ID, POST code diagnostic, BMC error code
Three 40x56 mm dual rotor system fans

Warranty
3-year limited warranty or optional 5-year extended warranty

SPECIFIC SKUs

HNS2600BPBR
Module integrated with an Intel® Server Board S2600BPBR
Compatible with Intel® Server Chassis H2312XXLR3 and H2204XXLRE

HNS2600BPBR
Module integrated with an Intel® Server Board S2600BPQSR
Compatible with Intel® Server Chassis H2312XXLR3 and H2204XXLRE

HNS2600BPBR
Module integrated with an Intel® Server Board S2600BPB24R
Compatible with Intel® Server Chassis H2224XXLR3

SPECIFIC SKUs

HNS2600BPQ24R
Module integrated with an Intel® Server Board S2600BPQ24R
Compatible with Intel® Server Chassis H2224XXLR3

HNS2600BPBLCR
Module integrated with an Intel® Server Board S2600BPBLCR
Compatible with Intel® Server Board S2600BPBLCR with Asetek D2C® liquid-cooling (AXXBPLCKIT accessory required)¥

HNS2600BPQ24R
Module integrated with an Intel® Server Board S2600BPQ24R with Asetek D2C® liquid-cooling (AXXBPLCKIT accessory required)¥
Compatible with Intel® Server Chassis H2224XXLR3

¥ Liquid-cooling compute modules require Asetek® DQC-05F connection with Asetek® PGW-236 Coolant for compatibility.

Continued from previous page
# Intel® Server Systems Supporting the Intel® Xeon® Processor Scalable Family

## INTEL® SERVER SYSTEMS R1000WF AND R2000WF BASED ON THE INTEL® SERVER BOARD S2600WF FAMILY — RELIABLE SOLUTIONS MADE EASY

Intel® Server S2600WF Product family delivers power and performance at peak efficiency in a 1U and 2U rack mount server form factor that features the energy-efficient dual 2nd Generation Intel® Xeon® processor Scalable Family. High memory capacity, networking, storage and I/O flexibility combine with innovative design to provide an exceptional and reliable server for business IT, appliance, data center, cloud and high performance computing applications.

### DESCRIPTION
Manage highly demanding application workloads with 1U and 2U rack systems based on the premier Intel® Server Board W2600WF family featuring power-efficient spread core design, incredible 24 DDR4 DIMMS, and support for dual 2nd Gen Intel® Xeon® processors Scalable Family.

### TARGET MARKET
Enterprise and medium business IT / big data / storage / cloud

### SERVER BOARD INCLUDED
- S2600WFT: Onboard 10 GbE
- S2600WF0: No LOM
- S2600WFQ: Intel® QAT support

### PROCESSOR SUPPORT, MAX TDP
- 2 x 1st or 2nd Generation Intel Xeon processors Scalable Family
- NOTE: Max CPU TDP supported up to 205 W with configuration limitations, see Technical Product Specifications

### TOTAL PCI SLOTS
3 Riser slots
1 Intel® RAID Module Connector

### PCI SLOT TYPES
1U: 2 x PCI Express* 3.0 x16 (FHHL), 1 x PCI Express 3.0 x8 Intel® I/O Expansion Module, 1 x PCI Express 3.0 x8 Intel® Integrated RAID Module
2U: 3 Riser Options: Total of up to 7 PCI Express 3.0 x8 or 2 PCI Express 3.0 x16, 3 PCI Express 3.0 x8, 1 x PCI Express 3.0 x8
- Intel® I/O Expansion Module, 1 x PCI Express 3.0 x8 Intel® Integrated RAID Module
- Riser 1 and 2 Options: 1) 3 x PCI Express 3.0 x8 (2 FHHL, 1 FHHL)
- Riser 1 and 2 Options: 2) 1 x PCI Express 3.0 x16 FHHL, 1 x PCI Express 3.0 x8 FHHL
- Riser 3: 1 x PCI Express 3.0 x8 LP, 1 x PCI Express 3.0 x4 LP via 3rd riser

### MEMORY CAPACITY
- 24 ECC DDR4 2666 MT/s
- Intel® Optane™ DC Persistent Memory Module support

### MODULE UPGRADES
- Intel® OCP Mezzanine Expansion Module
- Intel® Integrated RAID Module (ROC or IOC)
- Intel® Remote Management Module 4 Lite
- Trusted Platform Module

### INTEL® TRANSPARENT SUPPLY CHAIN
- Statement of Conformance
- Platform Certificate

### WARRANTY
- 3 year limited warranty, optional 2 year extended warranty available

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For the latest product SKUs and specifications, visit [ark.intel.com](http://ark.intel.com)
## Intel® Server Systems R1000WF Based on the Intel® Server Board S2600WF Family

### 1U Rack Systems

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D)</td>
<td>1.72&quot; x 17.25&quot; x 28&quot;</td>
</tr>
<tr>
<td>System Cooling</td>
<td>Redundant cooling fans</td>
</tr>
<tr>
<td>Power Supply</td>
<td>1100 W AC Redundant PSU (Platinum Efficiency)</td>
</tr>
<tr>
<td></td>
<td>Optional 1300 W AC Redundant PSU (Titanium Efficiency)</td>
</tr>
<tr>
<td></td>
<td>Optional 750 W DC 48 V Redundant PSU (Gold Efficiency)</td>
</tr>
<tr>
<td></td>
<td>NOTE: Second power supply sold separately</td>
</tr>
<tr>
<td>Thermal Solution</td>
<td>Included</td>
</tr>
<tr>
<td>PCI Riser Slots</td>
<td>2 x PCI Express* 3.0 x16 (FHHL)</td>
</tr>
<tr>
<td></td>
<td>1 x PCI Express 3.0 x8 Intel® Integrated RAID Module</td>
</tr>
<tr>
<td>Additional Expansion</td>
<td>1x OCP Mezzanine Expansion Module</td>
</tr>
<tr>
<td>Other Components</td>
<td>Intel® System Management Software Integrated BMC with IPMI 2.0</td>
</tr>
<tr>
<td></td>
<td>Optional optical disk drive</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 year limited warranty, optional 2 year extended warranty available</td>
</tr>
</tbody>
</table>

### SPECIFIC SKUs

<table>
<thead>
<tr>
<th>SKU</th>
<th>Server Board</th>
<th>TDP Support</th>
<th>Power Supply Options</th>
<th>Expansion Options</th>
<th>Memory Support</th>
<th>Warranty Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1208WFTYS/R1208WFYTSR</td>
<td>S2600WFT/S2600WFTY</td>
<td>Supports up to 165W TDP processors</td>
<td>Single 1100W AC 80 PLUS Platinum PSU</td>
<td>Dual 10 GbE ports</td>
<td>Support for 8x 2.5&quot; hot-swap drives 24 DDR4 DIMMs</td>
<td>3 year limited warranty, optional 2 year extended warranty available</td>
</tr>
<tr>
<td>R1208WFQYSR</td>
<td>S2600WFQR</td>
<td>Supports up to 165W TDP processors</td>
<td>Single 1100W AC 80 PLUS Platinum PSU</td>
<td>Intel® QAT support</td>
<td>Support for 8x 2.5&quot; hot-swap drives 24 DDR4 DIMMs</td>
<td>3 year limited warranty, optional 2 year extended warranty available</td>
</tr>
<tr>
<td>R1304WFOYS/R1304WFOYTSR</td>
<td>S2600WFQ/R2600WFQR</td>
<td>Supports up to 165W TDP processors</td>
<td>Single 1100W AC 80 PLUS Platinum PSU</td>
<td>No LOM</td>
<td>Support for 4x 3.5&quot; hot-swap drives 24 DDR4 DIMMs</td>
<td>3 year limited warranty, optional 2 year extended warranty available</td>
</tr>
<tr>
<td>R1304WFTYS/R1304WFTYTSR</td>
<td>S2600WFT/S2600WFTY</td>
<td>Supports up to 165W TDP processors</td>
<td>Single 1100W AC 80 PLUS Platinum PSU</td>
<td>Dual 10 GbE ports</td>
<td>Support for 4x 3.5&quot; hot-swap drives 24 DDR4 DIMMs</td>
<td>3 year limited warranty, optional 2 year extended warranty available</td>
</tr>
</tbody>
</table>

Product does not include memory, processors, or hard drives. For compatibility information please refer to the configuration guide at [www.intel.com/support](http://www.intel.com/support)
**Intel® Server Systems R2000WF Based on the Intel® Server Board S2600WF Family**

**2U RACK SYSTEMS**

<table>
<thead>
<tr>
<th>Dimensions (H x W x D)</th>
<th>3.44“ x 17.25“ x 28“</th>
</tr>
</thead>
</table>

**System Cooling**
- Redundant and hot-swap cooling fans

**Power Supply**
- 1300 W AC redundant-capable PSU (Titanium Efficiency)
- Optional 1100 W AC redundant-capable PSU (Platinum Efficiency)
- Optional 750 W DC 48 V Redundant PSU (Gold Efficiency)

**NOTE:** Second power supply sold separately

**Thermal Solution**
- Included

**PCI Riser Slots**
- 3 Riser Options: Total of up to 6 PCI Express 3.0 x8 or 2 PCI Express 3.0 x16, 2 PCI Express 3.0 x8, 1 x PCI Express 3.0 x8

**Intel® Integrated RAID Module**
- Option 1: 3 x PCI Express 3.0 x8 (2 FHFL, 1 FHHL)
- Option 2: 1 x PCI Express 3.0 x16 FHFL, 1 x PCI Express 3.0 x8 FHHL
- Additional: 1 x PCI Express 3.0 x8 LP, 1 x PCI Express 3.0 x4 LP via 3rd riser

**Additional Expansion**
- 1x Intel® OCP Mezzanine Expansion Module

**Other Components**
- Intel® System Management Software
- Integrated BMC with IPMI 2.0
- Optional optical disk drive

**Warranty**
- 3 year limited warranty, optional 2 year extended warranty available

### SPECIFIC SKUs

<table>
<thead>
<tr>
<th>SKU</th>
<th>Server Board S2600WFT/S2600WFTR</th>
<th>TDP Processors</th>
<th>PSU</th>
<th>Drives</th>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>R2208WFTZS/R2208WFTZSR</td>
<td>Supports up to 205W TDP processors</td>
<td>Integrated Dual 10Gbe ports</td>
<td>Single 1300W AC 80 PLUS Titanium PSU</td>
<td>Support for 8x 2.5” SAS/SATA/NVMe hot-swap drives</td>
<td>24 DDR4 DIMMs</td>
</tr>
<tr>
<td>R2208WFQZS/R2208WFQZSR</td>
<td>Supports up to 205W TDP processors</td>
<td>Single 1300W AC 80 PLUS Titanium PSU</td>
<td>Support for 8x 2.5” SAS/SATA/NVMe hot-swap drives</td>
<td>No LOM</td>
<td>24 DDR4 DIMMs</td>
</tr>
</tbody>
</table>

### SPECIFIC SKUs

<table>
<thead>
<tr>
<th>SKU</th>
<th>Server Board S2600WFT/S2600WFTR</th>
<th>TDP Processors</th>
<th>PSU</th>
<th>Drives</th>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>R2224WFTZS/R2224WFTZSR</td>
<td>Supports up to 150W TDP processors</td>
<td>Single 1300W AC 80 PLUS Titanium PSU</td>
<td>Support for 24 x 2.5” hot-swap SAS/SATA/NVMe drives</td>
<td>Integrated Dual 10Gbe ports</td>
<td></td>
</tr>
<tr>
<td>R2224WFQZS</td>
<td>Supports up to 150W TDP processors</td>
<td>Single 1300W AC 80 PLUS Platinum PSU</td>
<td>Intel® QAT support</td>
<td>Support for 24x 2.5” hot-swap SAS/SATA/NVMe drives</td>
<td>24 DDR4 DIMMs</td>
</tr>
</tbody>
</table>

Continued on next page
## 2U Rack Systems

### SPECIFIC SKUs

<table>
<thead>
<tr>
<th>SKU</th>
<th>Intel® Server Board S2600WFT/S2600WFTTR</th>
<th>Intel® Server Board S2600WFQ/S2600WFOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>R2308WFTZS/R2308WFTZSR</td>
<td>Supports up to 165W TDP processors Single 1300W AC 80 PLUS Titanium PSU Dual 10 GbE ports Support for 12x 3.5” hot-swap drives 24 DDR4 DIMMs</td>
<td>Supports up to 140W TDP processors Support for 12x 3.5” hot-swap drives 24 DDR4 DIMMs</td>
</tr>
<tr>
<td>R2312WFTZS/R2312WFTZSR</td>
<td>Intel® Server Board S2600WFT/S2600WFTTR</td>
<td>Intel® Server Board S2600WFT/S2600WFTR</td>
</tr>
<tr>
<td></td>
<td>Supports up to 140W TDP processors Single 1300W AC 80 PLUS Titanium PSU Dual 10 GbE ports Support for 12x 3.5” hot-swap drives 24 DDR4 DIMMs</td>
<td>Supports up to 140W TDP processors Single 1300W AC 80 PLUS Titanium PSU Intel® QAT support Support for 12x 3.5” hot-swap drives 24 DDR4 DIMMs</td>
</tr>
</tbody>
</table>

Product does not include memory, processors, or hard drives.

For compatibility information please refer to the configuration guide at [www.intel.com/support](http://www.intel.com/support).

For more information, visit [www.intel.com/go/serversystems](http://www.intel.com/go/serversystems)

In 2019, Intel released the 2nd Generation Intel® Xeon® processor Scalable family. To enable support for the new processor family, Intel created an updated system software stack which includes the System BIOS and other system firmware. In support of the 2nd Gen Intel® Xeon® processor Scalable family, Intel began pre-loading the supporting system software stack onto all server boards and systems that define the Intel® Server S2600WF product family. All server board and systems with a pre-loaded system software stack compatible with the 2nd Gen Intel® Xeon® processor Scalable family can be identified by a product order code ending in an 'R'. Existing server boards and systems that define the Intel® Server S2600WF product family with product codes that do NOT end in an 'R' can be identified by a product order code ending in an 'R'. Existing server boards and systems that define the Intel® Server S2600WF product family with product codes that do NOT end in an 'R' can be identified by a product order code ending in an 'R'.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See [www.intel.com/products/processor_number](http://www.intel.com/products/processor_number) for details.

Overall memory size depends on the processor used.

NVDIMM support refers to Intel® Server Configurator Tool ([https://serverconfigurator.intel.com](https://serverconfigurator.intel.com)).

All products and dates specified are preliminary based on current expectations and are subject to change without notice. Availability in different channels may vary. For more complete information about performance and benchmark results, visit [www.intel.com/benchmarks](http://www.intel.com/benchmarks).

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at [www.intel.com/go/serversystems](http://www.intel.com/go/serversystems).

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# Intel® Server Systems Supporting the Intel® Xeon® Processor E5-2600 v4 Family

**INTEL® SERVER SYSTEMS R1000WT AND R2000WT BASED ON THE INTEL® SERVER BOARD S2600WT FAMILY — RELIABLE SOLUTIONS MADE EASY**

Supporting 1U and 2U rack systems for expansion flexibility and maximum compute, memory, and I/O capacity to address customer security concerns and guard against counterfeiting and malware, select product families feature the Intel® Transparent Supply Chain which enables the ability to verify the authenticity of board components and firmware. Get the latest Intel® Server Products built on a foundation of high-quality technology in the next-generation Intel® Xeon® processor E5-2600 v4 family of server solutions. The latest Intel Server Products are designed to span multiple use-cases and customization requirements while offering performance, reliability, and security to meet customers’ requirements and growth needs now and in the future.

## DESCRIPTION

Manage highly demanding application workloads with 1U and 2U rack systems based on the premier Intel® Server Board W2600WT family featuring power-efficient spread core design, incredible 24 DDR4 DIMMS, and support for dual Intel® Xeon® processors E5-2600 v4.

## TARGET MARKET

Enterprise and medium business IT / big data / storage / cloud

## SERVER BOARD INCLUDED

<table>
<thead>
<tr>
<th>Server Board</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2600WT2R</td>
<td>1 Gb Ethernet</td>
</tr>
<tr>
<td>S2600WTR</td>
<td>10 GbE</td>
</tr>
</tbody>
</table>

## PROCESSOR SUPPORT, MAX TDP

2 x Intel Xeon processors E5-2600 v4 product family

**NOTE:** Max CPU TDP supported 145 W with configuration limitations, see Technical Product Specifications

## TOTAL PCI SLOTS

3 Riser slots
1 Intel® I/O Module Connector
1 Intel® RAID Module Connector

## PCI SLOT TYPES

1U: 2 x PCI Express* 3.0 x16 (FHHL), 1 x PCI Express 3.0 x8 Intel® I/O Expansion Module, 1 x PCI Express 3.0 x8 Intel® Integrated RAID Module
2U: 3 Riser Options: Total of up to 6 PCI Express 3.0 x8 or 2 PCI Express 3.0 x16, 2 PCI Express 3.0 x8, 1 x PCI Express 3.0 x8 Intel I/O Expansion Module, 1 x PCI Express 3.0 x8 Intel Integrated RAID Module

### PCI Slot Types

- Option 1) 3 x PCI Express 3.0 x8 x FHFL (1 FHHL, 2 FHFL)
- Option 2) 1 x PCI Express 3.0 x16 FHFL, 1 x PCI Express 3.0 x8 FHFL
- Option 3) 2 PCI-X 133 MHz FHHL, 1 x PCI Express 3.0 x8 FHHL
- Additional: 1 x PCI Express 3.0 x8 LP, 1 x PCI Express 2.0 x4 LP via 3rd riser

## MEMORY CAPACITY

24 LR / R / DIMMx 1333 / 1600 / 1866 / 2133 / 2400 MHz ECC DDR4

1.50 TB max using 64 GB DIMMS

## MODULE UPGRADES

- Intel® I/O Expansion Module
- Intel® Integrated RAID Module (ROC or IOC)
- Intel® Remote Management Module 4 Lite
- Trusted Platform Module

## INTEL® TRANSPARENT SUPPLY CHAIN

- Statement of Conformance
- Platform Certificate

## WARRANTY

3 year limited warranty, optional 2 year extended warranty available

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For the latest product SKUs and specifications, visit [ark.intel.com](http://ark.intel.com)

1. Maximum memory speed supported depends on the processor used.
2. NVDIMM support refer to Intel® Server Configurator Tool ([https://serverconfigurator.intel.com](https://serverconfigurator.intel.com)).
# Intel® Server Systems R1000WT Based on the Intel® Server Board S2600WT Family

## 1U RACK SYSTEMS

<table>
<thead>
<tr>
<th>Dimensions (H x W x D)</th>
<th>1.72” x 17.25” x 28”</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Cooling</td>
<td>Redundant cooling fans</td>
</tr>
<tr>
<td>Power Supply</td>
<td>750 W AC Redundant PSU (Platinum Efficiency)</td>
</tr>
<tr>
<td></td>
<td>Optional 750 W DC 48 V Redundant PSU (Gold Efficiency)</td>
</tr>
<tr>
<td></td>
<td>NOTE: Second power supply sold separately</td>
</tr>
<tr>
<td>Thermal Solution</td>
<td>Included</td>
</tr>
<tr>
<td>PCI Riser Slots</td>
<td>2 x PCI Express® 3.0 x16 (FHHL)</td>
</tr>
<tr>
<td></td>
<td>1 x PCI Express 3.0 x16 Intel® I/O Expansion Module</td>
</tr>
<tr>
<td></td>
<td>1 x PCI Express 3.0 x8 Intel® Integrated RAID Module</td>
</tr>
<tr>
<td>Other Components</td>
<td>Intel® System Management Software</td>
</tr>
<tr>
<td></td>
<td>Integrated BMC with IPMI 2.0</td>
</tr>
<tr>
<td></td>
<td>Optional optical disk drive</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 year limited warranty, optional 2 year extended warranty available</td>
</tr>
</tbody>
</table>

## SPECIFIC SKUs

### R1208WT2GSR
- Intel® Server Board S2600WT2R
- 8 x 2.5" hot-swap HDD, optional support for 1 x 2.5" fixed internal drive
- 750 W AC redundant-capable PSU; second PSU sold separately
- Integrated Dual Port Intel® Ethernet Controller 1350 (1 GbE)

### R1208WTTGSR
- Intel® Server Board S2600WTTR
- 8 x 2.5" hot-swap HDD, optional support for 1 x 2.5" fixed internal drive
- 750 W AC redundant-capable PSU; second PSU sold separately
- Integrated Dual Port Intel® Ethernet Controller X540 (10 GbE)

### R1304WTTGSR
- Intel® Server Board S2600WTTR
- 4 x 3.5" hot-swap HDD, optional support for 1 x 2.5" fixed internal drive
- 750 W AC redundant-capable PSU; second PSU sold separately
- Integrated Dual Port Intel® Ethernet Controller X540 (10 GbE)

---

Product does not include memory, processors, or hard drives. For compatibility information please refer to the configuration guide at [www.intel.com/support](http://www.intel.com/support)
Intel® Server Systems R2000WT Based on the Intel® Server Board S2600WT Family

2U RACK SYSTEMS

Dimensions (H x W x D) 3.44” x 17.25” x 28”

System Cooling Redundant and hot-swap cooling fans

Power Supply
- 750 W AC redundant-capable PSU (Platinum Efficiency)
- 750 W DC –48V redundant-capable power supply (Gold Efficiency)
- 1100 W AC redundant-capable PSU (Platinum Efficiency)

NOTE: Second power supply sold separately

Thermal Solution Included

PCI Riser Slots
- 3 Riser Options: Total of up to 6 PCI Express® 3.0 x8 or 2 PCI Express 3.0 x16, 2 PCI Express 3.0 x8, 1 x PCI Express 3.0 x8 Intel® Integrated RAID Module
  Option 1) 3 x PCI Express 3.0 x8 (2 FHFL, 1 FHHL)
  Option 2) 1 x PCI Express 3.0 x16 FHFL, 1 x PCI Express 3.0 x8 FHHL
  Option 3) 2 PCI-X 133 MHz FHFL, 1 x PCI Express 3.0 x8 FHHL

Additional: 1 x PCI Express 3.0 x8 LP, 1 x PCI Express 2.0 x4 LP via 3rd riser

Other Components
- Intel® System Management Software
- Integrated BMC with IPMI 2.0
- Optional optical disk drive

Warranty
- 3 year limited warranty, optional 2 year extended warranty available

### SPECIFIC SKUs

<table>
<thead>
<tr>
<th>SKU</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>R2208WT2YSR</td>
<td>Intel® Server Board S2600WT2R</td>
</tr>
<tr>
<td></td>
<td>8 x 2.5” hot-swap HDD, optional 2 x 2.5” SATA rear hot-swap drives, 2 x</td>
</tr>
<tr>
<td></td>
<td>2.5” fixed internal drives</td>
</tr>
<tr>
<td></td>
<td>1100 W AC redundant-capable PSU; second PSU sold separately</td>
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<tr>
<td></td>
<td>Integrated Dual Port Intel® Ethernet Controller I350 (1 GbE)</td>
</tr>
<tr>
<td></td>
<td>6 PCI Express® 3.0 x8 (4 FHFL, 2 FHHL), 1 riser PCI Express 3.0 x8 LP,</td>
</tr>
<tr>
<td></td>
<td>PCIe 2.0 x4 LP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SKU</th>
<th>Details</th>
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<tbody>
<tr>
<td>R2208WTTC1R</td>
<td>Intel® Server Board S2600WTTTR</td>
</tr>
<tr>
<td></td>
<td>8 x 2.5” hot-swap HDD, optional 2 x 2.5” SATA rear hot-swap drives, 2 x</td>
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<tr>
<td></td>
<td>2.5” fixed internal drives</td>
</tr>
<tr>
<td></td>
<td>2 x 1100 W AC redundant-capable PSU</td>
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<td></td>
<td>Integrated Dual Port Intel® Ethernet Controller X440 (10 GbE)</td>
</tr>
<tr>
<td></td>
<td>2 PCI Express® 3.0 x16, 2 PCI Express 3.0 x8, 1 PCI Express 3.0 x8 LP,</td>
</tr>
<tr>
<td></td>
<td>PCIe 2.0 x4 LP</td>
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<table>
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<tr>
<th>SKU</th>
<th>Details</th>
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<tr>
<td>R2208WTTYSR</td>
<td>Intel® Server Board S2600WTTYR</td>
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<td>8 x 2.5” hot-swap HDD, optional 2 x 2.5” SATA rear hot-swap drives, 2 x</td>
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<td></td>
<td>2.5” fixed internal drives</td>
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<tr>
<td></td>
<td>1100 W AC redundant-capable PSU; second PSU sold separately</td>
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<tr>
<td></td>
<td>Integrated Dual Port Intel® Ethernet Controller X540 (10 GbE)</td>
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<tr>
<td></td>
<td>6 PCI Express® 3.0 x8 (4 FHFL, 2 FHHL), 1 riser PCI Express 3.0 x8 LP,</td>
</tr>
<tr>
<td></td>
<td>PCIe 2.0 x4 LP</td>
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</table>

<table>
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<tr>
<th>SKU</th>
<th>Details</th>
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<tbody>
<tr>
<td>R2224WTTC1R</td>
<td>Intel® Server Board S2600WTTTC</td>
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<tr>
<td></td>
<td>24 x 2.5” hot-swap HDD, optional 2 x 2.5” SATA rear hot-swap drives, 2 x</td>
</tr>
<tr>
<td></td>
<td>2.5” fixed internal drives</td>
</tr>
<tr>
<td></td>
<td>1100 W AC redundant-capable PSU; second PSU sold separately</td>
</tr>
<tr>
<td></td>
<td>Integrated Dual Port Intel® Ethernet Controller X540 (10 GbE)</td>
</tr>
<tr>
<td></td>
<td>6 PCI Express® 3.0 x8 (4 FHFL, 2 FHHL)</td>
</tr>
</tbody>
</table>

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## Intel® Server Systems R2000WT Based on the Intel® Server Board S2600WT Family

### SPECIFIC SKUs

<table>
<thead>
<tr>
<th>SKU</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R2308WTTYSR</td>
<td><strong>Intel® Server Board S2600WTTR</strong>&lt;br&gt;8 x 3.5&quot; hot-swap HDD, optional 2 x 2.5&quot; SATA rear hot-swap drives, 2 x 2.5&quot; fixed internal drives&lt;br&gt;1100 W AC redundant-capable PSU; second PSU sold separately&lt;br&gt;Integrated Dual Port Intel® Ethernet Controller X540 (10 GbE) 6 PCI Express® 3.0 x8 (4 FHFL, 2 FHHL)&lt;br&gt;1 riser PCI Express 3.0 x8 LP, PCIe 2.0 x4 LP</td>
</tr>
<tr>
<td>R2312WTTYSR</td>
<td><strong>Intel® Server Board S2600WTTR</strong>&lt;br&gt;12 x 3.5&quot; hot-swap HDD, optional 2 x 2.5&quot; SATA rear hot-swap drives, 2 x 2.5&quot; fixed internal drives&lt;br&gt;1100 W AC redundant-capable PSU; second PSU sold separately&lt;br&gt;Integrated Dual Port Intel® Ethernet Controller X540 (10 GbE) 6 PCI Express® 3.0 x8 (4 FHFL, 2 FHHL)</td>
</tr>
</tbody>
</table>

Product does not include memory, processors, or hard drives. For compatibility information please refer to the configuration guide at [www.intel.com/support](http://www.intel.com/support).

1. Maximum memory speed supported depends on the processor used.
Intel® Server Boards S1200SP–Based Systems Supporting the Intel® Xeon® Processor E3-1200 v6 Family

RELIABLE, COST EFFECTIVE AND EASY TO MANAGE

Get Intel® Server Products built on a foundation of high-quality technology in the sixth generation Intel® Xeon® processor E3-1200 v6 family-based server system. The Intel® Server System R1000SP Family has the processing power to deliver reliability, durability and performance along with server management features and options for increased storage, functionality or faster networking speed. Intel® Server Products are backed by Intel's design excellence and manufacturing expertise to deliver processing power with high levels of flexibility, manageability and reliability.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Robust and cost effective server s that can scale as customers grow. The Intel Server System R1000SP Family offers systems that scale via SATA and PCIe* expansion options, server management and storage flexibility at budget friendly prices.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARGET MARKET</td>
<td>Small and medium businesses, embedded, storage or security appliances and web hosting rack installations</td>
</tr>
<tr>
<td>SERVER BOARD INCLUDED</td>
<td>S1200SPOR: Rack optimized to support Intel® I/O Expansion Module and storage modules</td>
</tr>
<tr>
<td>PROCESSOR SUPPORT</td>
<td>1 x Intel® Xeon® processor E3-1200 v6 product family</td>
</tr>
<tr>
<td>TOTAL PCI SLOTS</td>
<td>1</td>
</tr>
<tr>
<td>PCI SLOT TYPES</td>
<td>1 PCIe® Gen3 x8 with x16 connection</td>
</tr>
<tr>
<td>MEMORY CAPACITY</td>
<td>4 x DDR4 UDIMMs up to 2400 MHz ECC 64 GB max</td>
</tr>
<tr>
<td>MODULE UPGRADES</td>
<td>Intel® I/O Expansion Module Intel® Integrated RAID Module Intel® Remote Management Module 4 LITE2 Trusted Platform Module 1.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1U RACK SYSTEMS</th>
<th>SPECIFIC SKUs</th>
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<tbody>
<tr>
<td>Dimensions (H x W x D)</td>
<td>1.7” x 17.26” x 23.84”</td>
</tr>
<tr>
<td>System Cooling</td>
<td>Fixed cooling fans</td>
</tr>
<tr>
<td>Power Supply</td>
<td>450 W Redundant (Gold Efficiency)</td>
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<tr>
<td>Thermal Solution</td>
<td>Sold separately</td>
</tr>
<tr>
<td>Other Components</td>
<td>Optional optical disk drive</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 year limited warranty</td>
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</tbody>
</table>

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The Intel® Server Product Marketing Library is designed as a one-stop-shop for all Intel® Server Product marketing assets and sales tools. Visit servermarketinglibrary.intel.com

For more information, visit www.intel.com/go/serversystems

1 Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See www.intel.com/products/processor_number for details.

2 High efficiency power supply.

3 On interposer (need accessory kit AXXRMM4IOM or AXXRMM4IOMW).

All products and dates specified are preliminary based on current expectations and are subject to change without notice. Availability in different channels may vary. For more complete information about performance and benchmark results, visit www.intel.com/benchmarks

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