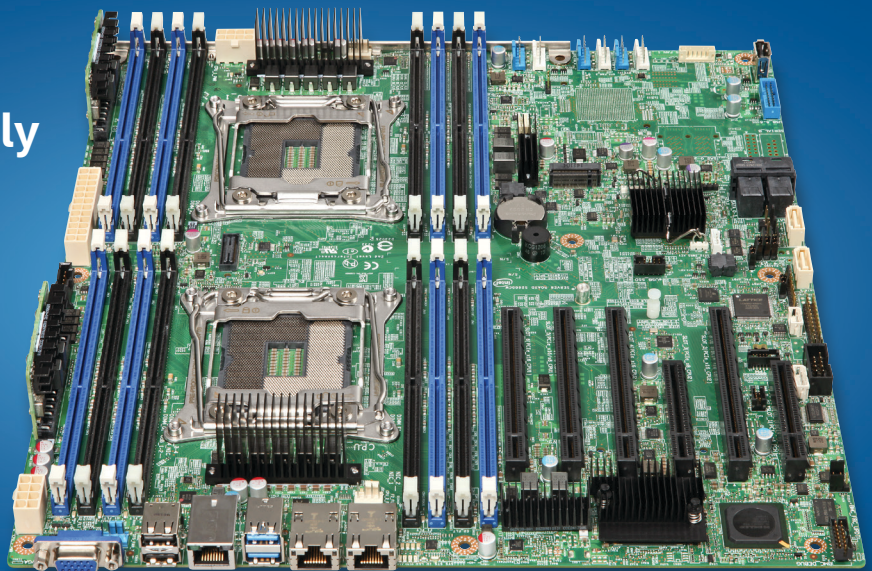intel®

FEATURE FLEXIBLE. SUPERIOR PERFORMANCE.

Intel® Server Board S2600CW Product Family

Flexible, rack friendly, general purpose server board in a standard form-factor ideal for a variety of server workloads including embedded, SMB, storage and cloud

The Intel® Server Board S2600CW Product Family showcases the Intel® Xeon® processor E5-2600 v3 products by combining high PCIe* lane availability and SAS/SATA storage options in a standard 12" x 13" EEB form factor to provide a value option for pedestal or rackmount systems. Flexible ordering options include dual 1G or 10GBaseT Ethernet, 16 DIMM sockets and an on-board SAS controller. The S2600CW is ideal for a wide range of applications in the embedded, office, storage, and cloud segments.

Supports powerful compute and memory

- Dual Intel® Xeon® processor E5-2600 v3 product family
- Intel® AVX 2.0 (Advanced Vector Extension) acceleration of enterprise-class workloads
- Up to 16 DDR4 DIMMs

Flexible storage and networking capability

- Flexible M.2, eUSB, SATADOM on-board storage
- On-board 12G 8-ports SAS available
- Dual 1GbE or 10GbE integrated LAN ports
- Up to 8x 3.5" or 16x 2.5" drives in an Intel 4U pedestal chassis
- Optional support for up to 4 PCIe SFF (NVMe) SSDs per system

Maximum PCIe slots

- Up to 6 PCIe slots supporting 76 lanes in a standard 12" x 13" form factor

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S2600CW SERVER BOARD SPECIFICATIONS

Server Board Specification	Details
Board Dimensions	12" x 13" SSI EEB form factor
CPU	Dual Intel® Xeon® E5-2600 v3 processor sockets, up to 145W TDP
Packaging Dimensions	367mm x 323mm x 67mm, 5-pack
Socket	Socket-R3 LGA2011-3
Chipset	Intel® C612 chipset
Memory Type	DDR4 RDIMMs or LRDIMMs at 2133MT/s maximum
Memory Capacity	Up to 1TB using 64GB DIMMs
Max DIMM slots	16 DIMMs, 2 DIMMs per channel, 4 channels per processor
Memory Speed	1333, 1600, 1866 AND 2133MT/s
Memory Voltage	1.2V, DDR4 Standard I/O voltage
On-Board LAN Options	Dual 1GbE via an Intel i350 (S2600CW2R/CW2SR) -or- Dual 10GbE via an Intel x540 (S2600CWTR/CWTSR)
On-Board SAS Options	LSI3008 SAS 12G (S2600CWTSR or S2600CW2SR)
Video	Integrated 2D video controller with 16MB DDR3 memory
Server Management	Integrated BMC with IPMI 2.0 support, optional KVM and Media Redirection via RMM4

External Rear I/O Connectors	Details
USB	Two USB 3.0 ports plus two USB 2.0 ports
Ethernet	Dual RJ45, Network Interface Single RJ45 – Dedicated 1GbE Server Management Port
Video	One DB-15 VGA connector

Internal Connectors and Headers	Details
SATA	Two single-port 7-pin SATA 6G ports, supports SATADOM or optical devices Two 4-port mini-SAS HD connectors supporting 8x SAS 6G transfer rates
SAS	Two mini-SAS HD connectors supporting 8x SAS 12G transfer rates and RAID 0,1,1E,10 (S2600CW2SR and S2600CWTSR only). Optional software activation key supporting RAID 5.
USB	One Type A USB 2.0 Connector One 2x10 pin connector providing front panel support for up to two USB 3.0 ports One internal USB port to support low profile eUSB SSD
Serial	One DH-10 Serial Port B connector
Front Panel	One 2x12 pin SSI-EEB compliant front panel header
TPM	One TPM header, supporting standard TPM1.2 or 2.0 modules
M.2	One M.2/NGFF connector supporting a SATA link. Removes support for SATA port 4 if used.
RMM4	One RMM4 LITE connector supporting the RMM4 LITE activation key for IPMI Remote KVM control

PCIe* Expansion	Source	S2600CW2R or S2600CWTR (no SAS)	S2600CW2SR or S2600CWTSR (SAS)
Slot 1	PCH	x4 PCIe Gen 2	x4 PCIe Gen 2
Slot 2	CPU2	x16 PCIe Gen 3 electrical & mechanical	x16 PCIe Gen 3 electrical & mechanical
Slot 3	CPU2	x8 PCIe electrical & mechanical	x8 PCIe electrical & mechanical
Slot 4	CPU2	x16 PCIe Gen 3 electrical & mechanical	x16 PCIe Gen 3 electrical & mechanical
Slot 5	CPU1	x16 PCIe Gen 3 electrical & mechanical	x8 PCIe Gen 3 electrical & mechanical
Slot 6	CPU1	x16 PCIe Gen 3 electrical & mechanical	x16 PCIe Gen 3 electrical & mechanical

* PCIe Gen 3.0 unless noted. Use of all PCIe slots requires dual processors populated.

Board Storage Options	Ports	Type
SATA	10	Two single-port 7-pin SATA 6G ports, supports SATADOM devices Two 4-port mini-SAS HD connectors supporting 8x SATA 6G transfer rates
M.2	1	Single M.2 interface, removes support for SATA port 4 if used
SAS	8	8-port interface supporting 12G SAS and 6G STA interface via LSISAS3008 controller (S2600CW2SR and S2600CWTSR only)
eUSB	1	Single eUSB interface

INTEL® SERVER CHASSIS P4000 SPECIFICATIONS

Specifications	Details
Type	Black pedestal chassis, Optional 4U Rack Mount
Server Board	S2600CW2R and S2600CWTR
Chassis Dimensions	17.24" (438mm) x 6.81" (173mm) x 24.9"(612mm)
Packaging Dimensions	825mm x 610mm x 370mm
PSUs per chassis	P4304XXMFEN2: single non-redundant 550 AC PSU included P4304XXMUXX: PSU not included, chassis is ready for hot-swap & redundant 750W or 1600W options, available separately
Power Supply Options	550W fixed, 750W and 1600W hot-swap redundant
Fans	Two 120x38mm non-redundant fans (P4304XXMFEN2) Five 80x38mm redundant hot-swap fans (P4304XXMUXX)

Expansion	Type
6 PCIe slots	Refer to board level specifications

*Use of all PCIe slots requires dual processors populated.

Chassis Storage	Size	Total # of Drives	Type
Front Peripheral Bays	Half Height 5 ¼"	Three (3)	Half-height drive bays for CD/DVD-ROM or tape drives. Can be used as one 3.5" removable media drive bay.
Standard Fixed Drive support	3.5" or 2.5"	Four (4)	Standard chassis configuration ships with support for up to four 3.5" or 2.5" fixed SATA drives. Mixing of 3.5" and 2.5" drives is supported. SAS drives are not supported
Hot-Swap support (option)	3.5" 2.5"	Eight (8) Sixteen (16)	The chassis has two bays for hot-swap drive cage upgrade kits. Three kits are available, all support 12Gbps SAS and 6Gbps SATA: • FUP4X35S3HSDK: 4x3.5", also supports 2.5" • FUP8X25S3HSDK: 8x2.5" • FUP8X25S3NVDK: 8x2.5", of which the first four can be NVMe Two drive cages can be installed for total of 8x3.5" or 16x2.5" hot-swap drives. It is also possible to install one 4x3.5" cage and one 8x2.5" cage. Mixing of SAS/SATA drives is not permitted.
PCIe SSD (NVMe) Drive Support (option)	2.5"	Up to 4	An 8x2.5" drive cage upgrade kit supports up to 4x PCIe (NVMe) 2.5" drives per system, with all 8 slots also supporting 12G SAS. Limit 1 NVMe kit per system, second chassis bay can still be used for SAS/SATA cage. Hot-swap support included. Order code FUP8X25S3NVDK.
SAS Expander Support	2.5"	Up to 16	An 8x2.5" drive cage upgrade kit supports up to 4x PCIe (NVMe) 2.5" drives per system, with all 8 slots also supporting 12G SAS. Limit 1 NVMe kit per system, second chassis bay can still be used for SAS/SATA cage. Hot-swap support included. Order code FUP8X25S3NVDK.

Front Control Panel	Details
Button/LED/Port Type	Power Button with LED Reset Button NMI Button ID Button with LED Four NIC LEDs Hard drive activity LED System status LED Two USB ports Optional front serial port / VGA port

INTEL® SERVER BOARD AND CHASSIS ORDER CODES

Order Code	Type	Description
DBS2600CW2R	Server Board	EEB form factor server board with Dual 1GBaseT ports Supports: Two Intel® Xeon® processor E5-2600 v3 family up to 145W, 16 DIMMs, 6 PCIe slots, 10x 6G SATA drives, No SAS support
DBS2600CWTR	Server Board	EEB form factor server board with Dual 10GBaseT ports Supports: Two Intel® Xeon® processor E5-2600 v3 family up to 145W, 16 DIMMs, 6 PCIe slots, 10x 6G SATA drives, No SAS support
DBS2600CW2SR	Server Board	EEB form factor server board with Dual 1GBaseT ports and on-board LSI 3008 RAID Supports: Two Intel® Xeon® processor E5-2600 v3 family up to 145W, 16 DIMMs, 6 PCIe slots, 10x 6G SATA drives plus 8x 12G SAS drives.
DBS2600CWTSR	Server Board	EEB form factor server board with Dual 10GBaseT ports and on-board LSI 3008 RAID Supports: Two Intel® Xeon® processor E5-2600 v3 family up to 145W, 16 DIMMs, 6 PCIe slots, 10x SATA drives plus 8x 12G SAS drives.
P4304XXMFEN2	4U Pedestal Chassis – Entry Level	4U Pedestal chassis with fixed 4x 3.5" HDD support. Optimized for basic configurations with fixed fans and PSU. Includes 2 non-redundant fixed fans, 550W AC supply, (1) standard control panel, (4) fixed 3.5 inch drive sleds, (4) fixed power connectors, (1) 4-port fan-out SATA cable, (1) processor/memory air duct, (1) fixed bezel, (1) fixed EMI cover, (1) spare hot-swap EMI cover, and (1) Quick User Guide Supports S2600CW server boards (not included). Heatsinks and rails not included.
P4304XXMUXX	4U Pedestal Chassis – High End	4U Pedestal chassis with fixed 4x 3.5" HDD support. Optimized for high-end configurations with hot-swap redundant fans, PSU's and Drives (No PSU's or Drive cages included). Includes 5 redundant hot-swap fans. (1) standard control panel, (4) fixed 3.5 inch drive sleds, (4) fixed power connectors, (1) 4-port fan-out SATA cable, (1) high current power distribution board, (1) processor/memory airduct, (1) hot-swap bezel, (1) fixed EMI cover, (1) spare hot-swap EMI cover, and (1) Quick User Guide Supports S2600CW server boards (not included). Power supply, heatsinks and rails not included.

See Configuration Guide for Accessory Kit and Spare Order Codes

For more information on Intel server solutions visit: intelserveredge.com

For more information on Intel® RAID visit: intel.com/go/raid

For product specifications visit: ark.intel.com

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