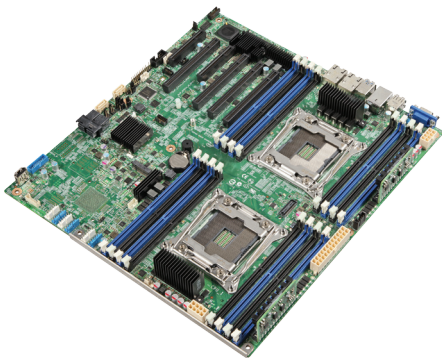


Flexible, General Purpose Server Board in an SSI EEB Form Factor

Intel® Server Board S2600CW Product Family featuring Intel® Xeon® processor E5-2600 v4 family

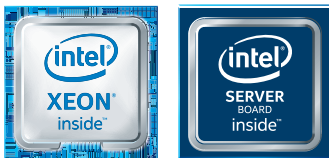
Embedded, SMB, Storage and Cloud



The Intel® Server Board S2600CW product family showcases the Intel® Xeon® processors E5-2600 v4 product family by combining high PCIe* lane availability and multiple SAS/SATA storage options in a standard 12" x 13" EEB form factor to provide a value option for pedestal or rack mount systems. Flexible ordering options include dual 1 GbE or 10GbBaseT Ethernet, 16 DIMM sockets and an on-board SAS controller. The S2600CW is ideal for a wide range of applications in the embedded, SMB, storage, and cloud segments

Powerful compute combined with flexible I/O, storage and networking capacity

- Dual sockets for Intel® Xeon® processor E5-2600 v4 product family per board with 16 DDR4 DIMMS
- Up to six PCIe* slots
- 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 a 4U pedestal Intel® Server Chassis
- Optional support for up to four PCIe* SFF (NVMe*) SSDs per system



Built with Intel® Quality, Reliability and Performance

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. Product and design quality is paired with 3-year standard warranties and robust technical and incident resolution support to ensure customer satisfaction.

S2600CW SERVER BOARD SPECIFICATIONS

Server Board Specification	Details
Board Dimensions	12" x 13" SSI EEB form factor
CPU	Dual sockets for Intel® Xeon® processor E5-2600 v4/v3 product family
Maximum TDP	145W
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 2400MT/s ¹ maximum
Memory Capacity	Up to 1TB using 64GB DIMMs
Max DIMM slots	16 DIMMs, 2 DIMMs per channel, 4 channels per processor
Memory Speed	1600MT/s, 1866MT/s, 2133MT/s, 2400MT/s ¹
Memory Voltage	1.2V, DDR4 Standard I/O voltage
On-Board LAN Options	Dual 1GbE ports via an Intel® Ethernet Server Adapter i350 (S2600CW2R/CW2SR) -or- Dual 10GbE ports via an Intel® Ethernet Converged Network Adapter 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 Intel® RMM4

External 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, supporting 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
Intel® RMM4	One Intel® RMM4 Lite connector supporting the Intel 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, supporting 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 LSISAS* 3008 controller (S2600CW2SR and S2600CWTSR only)
eUSB	1	Single eUSB interface

Intel® Transparent Supply Chain	Details
Includes Statement of Conformance and Platform Certificate	Yes
TPM Version	1.2

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 and 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

NOTE: 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	The chassis offers a mounting point between the drive cage and the system fans for the 36-port 12G SAS Expander (order code RES3TV360), allowing the use of up to 16 hot-swap drives with a 4-port or 8-port RAID Controller. Optional on-board SAS controller is also supported

Front Control Panel	Details
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 ORDER CODES

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 v4/v3 product family up to 145W, 16 DIMMs, 6 PCIe* slots, 10x 6G SATA drives, No SAS support, 4 x16 Gen3, 1 x8 Gen3
DBS2600CWTR	Server Board	EEB form factor server board with Dual 10GBaseT ports Supports: Two sockets for Intel Xeon processor E5-2600 v4/v3 product family, up to 145W, 16 DIMMs, 6 PCIe* slots, 10x 6G SATA drives, No SAS support, 4 x16 Gen3, 1 x8 Gen3
DBS2600CW2SR	Server Board	EEB form factor server board with Dual 1GBaseT ports and on-board LSI 3008 RAID Supports: Two sockets for Intel Xeon processor E5-2600 v4/v3 product family, up to 145W, 16 DIMMs, 6 PCIe* slots, 10x 6G SATA drives plus 8x 12G SAS drives, 3 x16 Gen3, 2 x8 Gen3 PCIe* slots
DBS2600CWTSR	Server Board	EEB form factor server board with Dual 10GBaseT ports and on-board LSI 3008 RAID Supports: Two sockets for Intel Xeon processor E5-2600 v4/v3 product family, up to 145W, 16 DIMMs, 6 PCIe* slots, 10x SATA drives plus 8x 12G SAS drives, 3 x16 Gen3, 2 x8 Gen3 PCIe* slots
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, (1) Quick User Guide Supports Intel® Server Board S2600CW (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 air duct, (1) Hot-swap bezel, (1) Fixed EMI* cover, (1) Spare hot-swap EMI cover, (1) Quick User Guide Supports Intel® Server Board S2600CW (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: intelservedge.com

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

For product specifications visit: ark.intel.com

¹ The maximum memory speed supported depends on the processor used.

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