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## **PRODUCT BRIEF**

Data Center, Cloud, High Performance Computing



Intel<sup>®</sup> Server Board S2600WF Product Family Featuring the 2<sup>nd</sup> Generation Intel<sup>®</sup> Xeon<sup>®</sup> Processor Scalable Family

# Full Featured with Maximum Flexibility for Expansion





## Compute Performance, Large Memory Capacity and High Efficiency

Intel® Server Board S2600WF product family delivers power and performance at peak efficiency in a 1U and 2U rack mount server form factor that features the energyefficient dual 2<sup>nd</sup> Generation Intel® Xeon® Scalable processor 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.

## Powerful Compute Combined with Flexible I/O, Storage, and Networking Capacity

- Dual CPU sockets with support for the 2<sup>nd</sup> Generation Intel<sup>®</sup> Xeon Scalable processor family
- Up to 24 DDR4 DIMMs
- Up to 12 Intel<sup>®</sup> Optane<sup>™</sup> DC Persistent Memory modules (six per CPU)
- Three riser card slots with support for up to eight PCIe\* 3.0 add-in cards for high configuration flexibility
- Four onboard PCIe OCuLink connectors for direct attach NVMe\* 2.5" SSD support
- Networking flexibility via 10G SFP+ and 10GBase-T OCP mezzanine modules
- Available in 1U and 2U systems with support for up to 24 NVMe\* drives in a 2U chassis
- Support for the full line of Intel® RAID Modules

### Future-Ready Platform for the Multi-Cloud, Data-Fueled Enterprise

The S2600WF product family is built with the latest 2<sup>nd</sup> Generation Intel<sup>®</sup> Xeon<sup>®</sup> Scalable processor family. This latest generation processor is designed for performance with high scalability and resiliency with no I/O compromise, and supports a wide range of existing and emerging workloads. The S2600WF product family uses a number of key processor advancements:

- 2nd Generation Intel® Xeon® Scalable processor
- Support for Intel<sup>®</sup> Optane DC Persistent Memory
- Intel<sup>®</sup> Deep Learning Boost (Vector Neural Network Instruction)
- Intel<sup>®</sup> Omni-Path Architecture integration delivering 100Gb/s port bandwidth for improved performance and lower latency in medium to large clusters.
- Intel<sup>®</sup> QuickAssist Technology (Intel<sup>®</sup> QAT) delivers up to 100Gbps performance for authentication, public key functions, and compression/decompression workloads, while freeing up CPU cycles and reducing demands on the server.
- Intel<sup>®</sup> Virtual RAID on CPU (Intel<sup>®</sup> VROC) enables high-performance, highly scalable CPU-based RAID with NVMe with high IOPS and low latency.

## Accelerating Time to Market with Innovative Data Center Solutions

The S2600WF product family is a foundational component of Intel® Data Center Blocks. These fully-validated, unbranded server systems include Intel's latest Data Center technology – already optimized to work better together – allowing partners to accelerate time to market with reliable data center solutions. The process of configuring and validating the components of solutions that are tuned to meet specific customer requirements is a complex and resource-intensive process. Intel Data Center Blocks based on the S2600WF family can help reduce this complexity, making it easierto build innovative server solutions that can support the demands of today's data center workloads.

### Verify Authenticity with Intel<sup>®</sup> Transparent Supply Chain

To address customer security concerns and guard against counterfeiting and malware, the S2600WF family features the Intel® Transparent Supply Chain which enables the ability to verify the authenticity of board components and firmware.

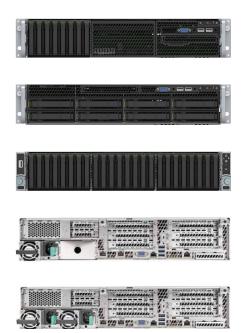


Fig. 2. Compatible 2U Intel<sup>®</sup> Server Chassis in 8, 12, and 24 drive configurations.



Features include:

- Digitally signed statement of conformance
- Platform Certificates provided with a secured Firmware Trusted Platform Module (TPM)
- Server component data tracked and saved for 20 years
- Firmware load verification

## Built with Intel<sup>®</sup> Quality, Reliability, and Performance

Intel<sup>®</sup> 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 three-year standard warranties and robust technical and incident resolution support to ensure customer satisfaction.

## Full-Featured and Versatile with Power and Performance at Peak Efficiency

Intel® Server Board S2600WF is available in three feature-optimized family SKUs for maximum flexibility in configuration:

- S2600WFTR Dual 10GbE integrated LAN ports, no integrated QAT support
- S2600WFQR Integrated Intel® QAT support, no integrated LAN Ports, reduced SATA/NVMe ports
- S2600WF0R No integrated LAN ports, no integrated Intel QAT support

#### Common use cases:

- HPC service node and burst buffer node
- HCI for scale out using network for agility and flexibility
- Databases requiring optimal compute to storage ratio
- Storage for NVMe\* hot and warm tier data
- Cloud Infrastructure at scale

#### **HPC Service Node Workloads:**

- Genomic sequencing
- Seismic modeling
- Computational fluid dynamics
- High frequency trading

#### **Storage Workloads:**

- Scale-up high performance storage
- Scale-out storage for HCI

#### **Cloud Workloads:**

- Virtualization and multi-tenancy
- Private and hybrid cloud

### INTEL® SERVER BOARD S2600WF PRODUCT FAMILY SPECIFICATIONS

| SERVER BOARD SPECIFICATION     | DETAILS  |  |
|--------------------------------|--|--|
| Board SKUs                     | S2600WFOR, S2600WFTR, S2600WFQR  |  |
| Board Dimensions               | 16.7" W x 17" L  |  |
| Intel Processor                | 2 <sup>nd</sup> Generation Intel® Xeon® Scalable processor family (Platinum, Gold, Silver, and Bronze) |  |
| Processor Socket Type          | Two Socket-P LGA3647   |  |
| Maximum Processor TDP          | 205 W  |  |
| Intel Chipset                  | Intel® C624 Chipset – S2600WFTR and S2600WF0R Intel® C628 Chipset – S2600WFQR                          |  |
| Max DIMM slots                 | 24 DIMMs total - six channels per processor, two DIMMs per channel                                     |  |
| Memory Type                    | DDR4 RDIMMs or LRDIMMs   |  |
| Memory Capacity                | Up to 4.5 TB for select Gold/Platinum CPUs, 1 TB for Silver/Bronze CPUs                                |  |
| Memory Speed <sup>2</sup>      | 2933 MT/s @ 1 DPC, 2667 MT/s @ 1 DPC and 2 DPC (DPC = DIMMs per channel)                               |  |
| Memory Voltage                 | 1.2V, DDR4 standard I/O voltage  |  |
| Networking                     | Dual 10GBase-T ports – S2600WFTR   |  |
| Networking                     | OCP* Mezzanine Modules (10GBase-T, SFP+ and1GBase-T options) – S2600WF0R and S2600WFQR                 |  |
| Intel® Quick Assist Technology | Supported on S2600WFQR   |  |
| TPM Support                    | One connector for optional TPM 2.0 module  |  |
| Board Weight                   | 1.7 kg   |  |
| Packaging Dimensions           | 561 x 489 x 108 mm   |  |
| Packaging Weight               | 3.3 kg   |  |
| Warranty                       | 3-year limited warranty  |  |

| INPUT/OUTPUT        | DETAILS  |  |
|---------------------|--|--|
| USB                 | Three external USB 3.0 ports<br>One internal Type-A USB 2.0 port<br>One internal 20-pin connector for optional 2x USB 3.0 port Front Panel support<br>One Internal 10-pin connector for optional 2x USB 2.0 port Front Panel support   |  |
| Serial              | One external RJ45 Serial Port A connector<br>One internal DH-10 Serial-B port header for optional rear serial port support   |  |
| Video               | One DB-15 External connector<br>One 14-Pin Internal connector for optional Front Panel Video support   |  |
| Front Panel SSI-EEB | One 2x15 pin SSI-EEB compliant front panel header  |  |
| Storage             | Two single port 7-pin SATA 6 Gbps connectors<br>Two 4-port SATA mini-SAS HD connectors – S2600WFT and S2600WF0 only<br>Two 80-mm M.2 connectors (x2 and x4 PCIe* and SATA)<br>PCIe* OCuLink Connectors for direct attach NVMe* 2.5" SSDs<br>• 4 connectors – S2600WFTR and S2600WF0R<br>• 2 connectors – S2600WFQR |  |
| Network             | Two integrated 10GbE Ports – S2600WFTR only  |  |

| EXPANSION OPTIONS         | DETAILS   |  |
|---------------------------|---|--|
| PCIe* Add-In Card Support | Three riser card slots supporting up to eight PCIe 3.0 add-in cards   |  |
| OCP* Module Support       | Support for one of several available PCIe x2 OCP KR - based mezzanine module options - 1GbE Cu, 10GbE Cu/SFP+ |  |
| SAS RAID Support          | Support for one of several available 12 GB/s Intel® Integrated RAID Module options                            |  |



| SERVER MANAGEMENT & SECURITY        | DETAILS   |
|-------------------------------------|---|
| Embedded Server Management Features | Integrated Baseboard Management Controller, IPMI 2.0 compliant<br>Dedicated RJ45 1GbE server management port<br>Includes Standard Server Management Features – See product TPS<br>Support for Intel® Server Management Software |
| Advanced Server Management Features | Support for Intel® Remote Management Module 4 Lite accessory option enabling Integrated KVM and Remote Media Redirection  |
| Intel® Transparent Supply Chain     | Includes Statement of Conformance and Platform Certificate  |

## **1U INTEL® SERVER SYSTEM R1000WF PRODUCT FAMILY SPECIFICATIONS**

| SPECIFICATIONS          | DETAILS   |
|-------------------------|---|
| Chassis Form Factor     | 10  |
| 1U Rack Dimensions      | 17.25" width x 28" length x 1.72" height  |
| 1U Packaging Dimensions | 22.7" width x 38.7" length x 10.2" height   |
| Server Board            | Intel® Server Board S2600WF Product Family  |
| Max. Processor TDP      | 165 W for select SKUs - See product TPS   |
| Power Supply Support    | Dual power supply module bays<br>Supported power configurations : 1+0, 1+1 redundant, and 2+0 combined (non-redundant)<br>Hot Swap capable in Redundant 1+1 power configuration |
| 1U Power Supply Options | 1300 W AC 80 PLUS* Titanium, 1100 W AC 80 PLUS* Platinum (standard), 750W DC 80 PLUS* Gold (available option)   |
| System Fan Support      | Six managed 40-mm system fans<br>Integrated fan included with each installed power supply module  |

| EXPANSION OPTIONS                 | PCIe* SOURCE | SLOT               | DETAILS  |
|-----------------------------------|--------------|--------------------|--|
| Riser Card 1                      | CPU1         | One PCIe* 3.0 Slot | x16 electrical, x16 mechanical   |
| Riser Card 2 <sup>+</sup>         | CPU2         | One PCIe 3.0 Slot  | x16 electrical, x16 mechanical<br>Support for one of several available PCIe x2 OCP KR-based mezzanine module options - |
| OCP* Mezzanine Module             | Chipset      | One mezzanine card | 1GbE Cu, 10GbE Cu/SFP+   |
| Intel® Integrated SAS RAID Module | CPU1         | One Mezzanine card | x8 Electrical, proprietary connection  |

#### HRequires dual processor configuration.

| STORAGE OPTIONS                  | DRIVE CONFIG. | DRIVE TYPE     | DETAILS   |
|----------------------------------|---------------|----------------|---|
| Front Hot-Swap Drive Bay Options | 4 x 3.5"      | SAS/SATA       | 6 Gbps SATA or 12 Gbps SAS w/ SAS controller<br>3.5" drive trays compatible with 2.5" SSDs  |
|                                  | 8 x 2.5"      | NVMe*/SAS/SATA | Up to eight 6 Gbps SATA or 12 Gbps SAS w/ SAS controller<br>Up to eight 2.5" PCIe* NVMe SSDs<br>Drive population rules apply when mixing drive types<br>See product TPS |
| Internal M.2                     | 2 x 80 mm     | PCIe*/SATA     | Two 80 mm M.2 (x2 and x4 PCIe* & SATA)  |

| INPUT/OUTPUT    | DETAILS   |  |
|-----------------|---|--|
| USB             | Three external USB 3.0 ports (rear panel)<br>Two external USB 3.0 ports (front panel)<br>One internal Type-A USB 2.0 port |  |
| Serial          | Dne external RJ45 Serial Port A connector (rear panel)  |  |
| Video           | One DB-15 external connector (rear panel)<br>One DB-15 external connector (front panel)                                   |  |
| Network         | Two 10GbE ports (rear panel) – Intel® Server Board S2600WFTR only   |  |
| Management Port | One RJ45 dedicated management port (rear panel)   |  |



### INTEL® SERVER SYSTEM R2000WF PRODUCT FAMILY SPECIFICATIONS

| 2U SPECIFICATIONS       | DETAILS   |  |
|-------------------------|---|--|
| Chassis Form Factor     | 2U  |  |
| 2U Rack Dimensions      | 17.25" width x 28" length x 3.44" height  |  |
| 2U Packaging Dimensions | 22.7" width x 38.7" length x 10.2" height   |  |
| Server Board            | Intel® Server Board S2600WF Product Family  |  |
| Max. Processor TDP      | 205 W for select SKUs – See product TPS   |  |
| Power Supply Support    | Dual power supply module bays<br>Supported power configurations : 1+0, 1+1 redundant, and 2+0 combined (non-redundant)<br>Hot-swap capable in redundant 1+1 power configuration |  |
| Power Supply Options    | 1300 W AC 80 PLUS* Titanium, 1100 W AC 80 PLUS Platinum, 750 W DC 80 PLUS* Gold   |  |
| System Fan Support      | Six managed 60-mm hot-swap capable system fans<br>Integrated fan included with each installed power supply module   |  |

| 2U EXPANSION                      | PCIe* SOURCE        | PCIe* 3.0 RISER CARD OPTIONS                  |                                |
|-----------------------------------|---------------------|---|--------------------------------|
| Riser Slot 1                      |                     | 3-Slot Riser Card                             | 2-Slot Riser Card              |
|                                   | Top Slot – CPU 1    | x8 electrical, x16 mechanical                 | x16 electrical, x16 mechanical |
|                                   | Middle Slot – CPU 1 | x8 electrical, x16 mechanical                 | N/A                            |
|                                   | Bottom Slot – CPU 2 | x8 electrical, x8 mechanical                  | x8 electrical, x8 mechanical   |
| Riser Slot 2                      |                     | 3-Slot Riser Card                             | 2-Slot Riser Card              |
|                                   | Top Slot – CPU 2    | x8 electrical, x16 mechanical                 | x16 electrical, x16 mechanical |
|                                   | Middle Slot – CPU 2 | x8 electrical, x16 mechanical                 | N/A                            |
|                                   | Bottom Slot – CPU 2 | x8 electrical, x8 mechanical                  | x8 electrical, x8 mechanical   |
| Riser Slot 3 (low profile)        |                     | Low profile riser:                            |                                |
|                                   | Top Slot – CPU 2    | x4 electrical, x8 mechanical                  |                                |
|                                   | Bottom Slot – CPU 2 | x8 electrical, x8 mechanical                  |                                |
| OCP* Mezzanine Module             | Chipset             | Onboard KR-based OCP connector x2 or x4 el    | ectrical depending on board    |
| Intel® Integrated SAS RAID Module | CPU 1               | Onboard proprietary connector - x8 electrical |                                |

Note: The population of two or three riser cards requires dual processors populated.

| 2U STORAGE OPTIONS                   | DRIVE CONFIG. | DRIVE TYPE     | DETAILS   |
|--------------------------------------|---------------|----------------|---|
| Front Hot-Swap<br>Drive Bays Options | 8 x 3.5"      | SAS/SATA       | Up to eight 6 Gbps SATA or 12 Gbps SAS w/ SAS controller<br>3.5" drive trays compatible with 2.5" SSDs  |
|                                      | 12 x 3.5"     | NVMe*/SAS/SATA | Up to twelve 6 Gbps SATA or 12 Gbps SAS w/ SAS controller<br>Up to two PCle* NVMe 2.5" SSDs (drive bays 10 and 11 only)<br>3.5" drive trays compatible with 2.5" SSDs     |
|                                      | 8 x 2.5"      | NVMe/SAS/SATA  | Up to eight 6 Gbps SATA or 12 Gbps SAS drives with SAS controller<br>Up to eight PCIe NVMe 2.5" SSDs<br>Drive population rules apply when mixing drive types.             |
|                                      | 16 x 2.5"     | NVMe/SAS/SATA  | Up to sixteen 6 Gbps SATA or 12 Gbps SAS drives with SAS controller<br>Up to sixteen PCIe NVMe 2.5" SSDs<br>Drive population rules apply when mixing drive types          |
|                                      | 24 x 2.5"     | NVMe/SAS/SATA  | Up to twenty four 6 Gbps SATA or 12 Gbps SAS drives with SAS controller<br>Up to twenty four PCIe NVMe 2.5" SSDs<br>Drive population rules apply when mixing drive types. |
| Rear SSD, Hot-Swap                   | 2 x 2.5"      | SATA SSD       | 2.5" rear mount 6 Gbps SATA hot-swap bay accessory option   |
| Internal SSD                         | 2 x 2.5"      | SATA           | Two fixed mount 6 Gbps SATA SSDs mounted on air   |
| Internal M.2                         | 2 x 80 mm     | SATA/PCIe*     | Two 80 mm M.2 (x2 and x4 PCIe/SATA)   |



| INPUT/OUTPUT    | DETAILS  |  |
|-----------------|--|--|
| USB             | Three external USB 3.0 ports (rear panel)<br>Two external USB 3.0 ports (front panel) – R2308, R2208, and R2216 SKUs only<br>One external USB 2.0 port (front rack handle) – R2312 and R2224 SKUs only<br>One internal Type-A USB 2.0 port |  |
| Serial          | One external RJ45 Serial Port A connector (rear panel)<br>One external Serial B port connector (rear panel) – accessory option   |  |
| Video           | One DB-15 external connector (rear panel)<br>One DB-15 external connector (front panel) – R2308, R2208, and R2216 SKUs only  |  |
| Network         | Two 10GbE ports (rear panel) – Intel® Server Board S2600WFTR only  |  |
| Management Port | One RJ45 dedicated management port (rear panel)  |  |

### SERVER BOARD AND 1U/2U SYSTEM ORDER CODES

| INTEL PRODUCT CODE | ТҮРЕ              | DESCRIPTION   |
|--------------------|-------------------|---|
| S2600WFTR          | Server Board Only | Server board supports two 2 <sup>nd</sup> Generation Intel <sup>®</sup> Xeon <sup>®</sup> Scalable processor family up to 205W TDP each, 24 DIMMs (including up to 12 Intel <sup>®</sup> DC Persistent Memory Modules), two 10Gb Ethernet ports   |
| S2600WF0R          | Server Board Only | Server board supports two 2 <sup>nd</sup> Generation Intel <sup>®</sup> Xeon <sup>®</sup> Scalable processor family up to 205W TDP each, 24 DIMMs (including up to 12 Intel <sup>®</sup> DC Persistent Memory Modules), no onboard LAN  |
| S2600WFQR          | Server Board Only | Server board supports two 2 <sup>nd</sup> Generation Intel <sup>®</sup> Xeon <sup>®</sup> Scalable processor family up to 205W TDP each, 24 DIMMs (including up to 12 Intel <sup>®</sup> DC Persistent Memory Modules), no onboard LAN, Intel <sup>®</sup> QuickAssist Technology (Intel <sup>®</sup> QAT). |
| R1208WFXXX         | 1U Chassis Only   | 1U chassis with support for eight 2.5" drives, no server board, no PSU, includes riser  |
| R1304WFXXX         | 1U Chassis Only   | 1U chassis with support for four 3.5" drives, no server board, no PSU, includes riser   |
| R2000WFXXX         | 2U Chassis Only   | 2U chassis, no drive bays, no server board, no PSU, no risers, no drive backplane   |
| R2312WFXXX         | 2U Chassis Only   | 2U chassis with support for twelve 3.5" drives, no server board, no PSU, no risers  |
| R1208WFTYSR        | 1U System         | System includes: Intel® Server Board S2600WFTR, dual 10GbE ports, single 1100-W PSU, backplane with support for 8x 2.5" drives  |
| R1208WFQYSR        | 1U System         | System includes: Intel® Server Board S2600WFQR, no onboard LAN, single 1100-W PSU, backplane with support for 8x 2.5" drives,<br>Intel® QuickAssist Technology (Intel® QAT)   |
| R1304WF0YSR        | 1U System         | System includes: Intel Server Board S2600WFOR, no onboard LAN, single 1100-W PSU, backplane with support for 4x 3.5" drives   |
| R1304WFTYSR        | 1U System         | System includes: Intel Server Board S2600WFTR, Dual 10GbE ports, single 1100-W PSU, backplane with support for 4x 3.5" drives   |
| R2208WFTZSR        | 2U System         | System includes: Intel Server Board S2600WFTR, Dual 10GbE ports, single 1300-W PSU, backplane with support for 8x 2.5" drives   |
| R2208WF0ZSR        | 2U System         | System includes: Intel Server Board S2600WFOR, no onboard LAN, single 1300-W PSU, backplane with support for 8x 2.5" drives   |
| R22208WFQZSR       | 2U System         | System includes: Intel Server Board S2600WFQR, no onboard LAN, single 1300-W PSU, backplane with support for 8x 2.5" drives,<br>Intel® QuickAssist Technology (Intel® QAT)  |
| R2224WFTZSR        | 2U System         | System includes: Intel Server Board S2600WFTR, dual 10GbE ports, Single 1300W PSU, Backplane with support for 24x 2.5" drives   |
| R2308WFTZSR        | 2U System         | System includes: Intel Server Board S2600WFTR, dual 10GbE ports, Single 1300W PSU, Backplane with support for 8x 3.5" drives  |
| R2312WFTZSR        | 2U System         | System includes: Intel Server Board S2600WFTR, dual 10GbE ports, Single 1300W PSU, Backplane with support for 12x 3.5" driveS   |
| R2312WF0NPR        | 2U System         | System includes: Intel Server Board S2600WF0R, no onboard LAN, no PSU, backplane with support for 12x 3.5" drives   |

Note: 1U/2U system SKUs do not include processors, memory, drives, rack mount kits, and other optional peripherals and accessories. See the Intel® Server S2600WF Product Family Configuration Guide for all available accessory kit and spare part order codes.



### INTEL® RAID MODULE ORDER CODES

| 12GBPS SAS ORDER CODE | DESCRIPTION   |
|-----------------------|---|
| RMS3HC080             | 12 Gb/s SAS/SATA entry-level RAID mezzanine module with 8 internal ports          |
| RMSP3HD080E           | Tri-mode SAS/SATA/PCIe* entry-level RAID mezzanine module with 8 internal ports   |
| RMS3JC080             | 12 Gb/s SAS/SATA entry-level RAID mezzanine module with 8 internal ports          |
| RMS3AC160             | 12 Gb/s SAS/SATA full-featured RAID mezzanine module with 16 internal ports       |
| RMS3CC040             | 12 Gb/s SAS/SATA full-featured RAID mezzanine module with 4 internal ports        |
| RMS3CC080             | 12 Gb/s SAS/SATA full-featured RAID mezzanine module with 8 internal ports        |
| RMSP3AD160F           | Tri-mode SAS/SATA/PCIe full-featured RAID mezzanine module with 16 internal ports |
| RMSP3CD080F           | Tri-mode SAS/SATA/PCIe full-featured RAID mezzanine module with 8 internal ports  |
| RMS3VC160             | 12 Gb/s SAS/SATA JBOD mezzanine module with 16 internal ports                     |
| RMSP3JD160J           | Tri-Mode SAS/SATA/PCIe JBOD mezzanine module with 16 internal ports               |



<sup>1</sup> Intel technologies may require enabled hardware, specific software, or services activation. Check with your system manufacturer or retailer.

<sup>2</sup> The maximum memory speed supported depends on the processor used.

For compatibility information please visit www.intel.com/support.

Intel may make changes to specifications and product descriptions at any time, without notice. For additional RAID modules and add-in-cards, visit: intel.com/RAID

For more information on Intel® Server Products and Solutions, visit: intel.com/serverproducts

For product specifications visit: ark.intel.com

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 intel.com.

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