

## ASUS

### 3<sup>rd</sup> Generation Intel Xeon Scalable

(Ice Lake Series)

Portfolio



intel.® ASUS

## Intel 3<sup>rd</sup> Gen Xeon Scalable

The latest 3rd Gen Intel Xeon Scalable processors feature core counts from 8 to 40 cores and an array of frequency and power supports, and deliver up to 40% better performance compared to the previous generations. The 3rd Gen Intel Xeon Scalable processor is also the only data-centre CPU with built-in AI acceleration to enable faster times to solution.

With built-in security features, this new platform delivers outstanding performance in security including encryption, authentication and data integrity across the breadth of standards that are prevalent in networking, enterprise and the cloud.



### 3<sup>rd</sup> Gen Xeon Scalable “Ice Lake” Family

| Model  | Cores | Threads | Base (GHz) | Single Core Turbo (GHz) | All Core Turbo (GHz) | Cache (MB) | TDP (W) | Support for Intel Optane Persistent Memory 200 Series | Intel SGX Enclave capacity per processor | Features  |
|--------|-------|---------|------------|-------------------------|----------------------|------------|---------|---|--|---|
| 8380HL | 28    | 56      | 2.9        | 4.3                     | 3.8                  | 38.5       | 250     | Yes   | 512 GB                                   | 4 and 8 Socket Scalable Performance   |
| 8380H  | 28    | 56      | 2.9        | 4.3                     | 3.8                  | 38.5       | 250     | Yes   | 512 GB                                   | 4 and 8 Socket Scalable Performance   |
| 8380   | 40    | 80      | 2.3        | 3.4                     | 3                    | 60         | 270     | Yes   | 512 GB                                   | Optimised for highest-per-core scalable performance and supports maximum Intel SGX Enclave Capacity |
| 8376HL | 28    | 56      | 2.6        | 4.3                     | 3.5                  | 38.5       | 205     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 8376H  | 28    | 56      | 2.6        | 4.3                     | 3.5                  | 38.5       | 205     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 8368Q  | 38    | 76      | 2.6        | 3.7                     | 3.3                  | 57         | 270     | Yes   | 512 GB                                   | Liquid Cooled, Supporting Maximum Intel SGX Enclave Capacity  |
| 8368   | 38    | 76      | 2.4        | 3.4                     | 3.2                  | 57         | 270     | Yes   | 512 GB                                   | Optimised for highest-per-core scalable performance and supports maximum Intel SGX Enclave Capacity |
| 8362   | 32    | 64      | 2.8        | 3.6                     | 3.5                  | 48         | 265     | Yes   | 64GB                                     | Optimised for highest-per-core scalable performance   |
| 8360Y  | 36    | 72      | 2.4        | 3.5                     | 3.1                  | 54         | 250     | Yes   | 64GB                                     | Optimised for highest-per-core scalable performance   |
| 8360HL | 24    | 48      | 3          | 4.2                     | 3.8                  | 33         | 225     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 8360H  | 24    | 48      | 3          | 4.2                     | 3.8                  | 33         | 225     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 8358P  | 38    | 76      | 2.6        | 3.7                     | 3.3                  | 57         | 270     | Yes   | 512 GB                                   | Cloud Optimized for VM Utilisation  |
| 8358   | 32    | 64      | 2.6        | 3.4                     | 3.3                  | 48         | 250     | Yes   | 64GB                                     | Optimised for highest-per-core scalable performance   |
| 8356H  | 8     | 16      | 3.9        | 4.4                     | 4.3                  | 35.75      | 190     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 8354H  | 18    | 36      | 3.1        | 4.3                     | 4                    | 24.75      | 205     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 8353H  | 18    | 36      | 2.5        | 3.8                     | 3.3                  | 24.75      | 150     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 8352M  | 32    | 64      | 2.3        | 3.5                     | 3.1                  | 54         | 225     | Yes   | 64GB                                     | Media Processing Optimized  |
| 8352Y  | 32    | 64      | 2.2        | 3.4                     | 2.8                  | 48         | 205     | Yes   | 64GB                                     | Scalable Performance  |
| 8352V  | 36    | 72      | 2.1        | 3.5                     | 2.5                  | 54         | 1995    | Yes   | 8 GB                                     | Cloud Optimized for VM Utilisation  |
| 8352S  | 32    | 64      | 2.2        | 3.4                     | 2.8                  | 48         | 205     | Yes   | 512 GB                                   | Supporting Maximum Intel SGX Enclave Capacity   |
| 8351N  | 36    | 72      | 2.4        | 3.5                     | 3.1                  | 54         | 225     | Yes   | 64GB                                     | Single Socket Optimized, Networking/NFV Optimized   |
| 6348H  | 24    | 48      | 2.3        | 4.2                     | 3.1                  | 33         | 165     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 6348   | 28    | 56      | 2.6        | 3.5                     | 3.4                  | 42         | 235     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance   |
| 6354   | 18    | 36      | 3          | 3.6                     | 3.6                  | 39         | 205     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance   |
| 6346   | 16    | 32      | 3.1        | 3.6                     | 3.6                  | 36         | 205     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance   |
| 6342   | 24    | 48      | 2.8        | 3.5                     | 3.3                  | 36         | 230     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance   |
| 6338   | 32    | 64      | 2          | 3.2                     | 2.6                  | 48         | 205     | Yes   | 64 GB                                    | Scalable Performance  |
| 6338T  | 24    | 48      | 2.1        | 3.4                     | 2.7                  | 36         | 165     | Yes   | 64 GB                                    | Long-life use and NEBS-Thermal Friendly   |
| 6338N  | 32    | 64      | 2.2        | 3.5                     | 2.7                  | 48         | 185     | Yes   | 64 GB                                    | Networking/NFV Optimized  |
| 6336Y  | 24    | 48      | 2.4        | 3.6                     | 3                    | 36         | 185     | Yes   | 64 GB                                    | Scalable Performance  |
| 6334   | 18    | 36      | 3.6        | 3.7                     | 3.6                  | 18         | 165     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance   |
| 6330   | 28    | 56      | 2          | 3.1                     | 2.6                  | 42         | 205     | Yes   | 64 GB                                    | Scalable Performance  |
| 6330N  | 28    | 56      | 2.2        | 3.4                     | 2.6                  | 42         | 165     | Yes   | 64 GB                                    | Networking/NFV Optimized  |
| 6330H  | 24    | 48      | 2          | 3.7                     | 2.8                  | 33         | 150     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 6328HL | 16    | 32      | 2.8        | 4.3                     | 3.7                  | 22         | 165     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 6328H  | 16    | 32      | 2.8        | 4.3                     | 3.7                  | 22         | 165     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 6326   | 16    | 32      | 2.9        | 3.5                     | 3.3                  | 24         | 185     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance   |
| 6314U  | 32    | 64      | 2.3        | 3.4                     | 2.9                  | 48         | 205     | Yes   | 64 GB                                    | Single Socket Optimized   |
| 6312U  | 24    | 48      | 2.4        | 3.6                     | 3.1                  | 36         | 185     | Yes   | 64 GB                                    | Single Socket Optimized   |
| 5320   | 26    | 52      | 2.2        | 3.4                     | 2.8                  | 39         | 185     | Yes   | 64 GB                                    | Scalable Performance  |
| 5320H  | 20    | 40      | 2.4        | 4.2                     | 3.3                  | 27.5       | 150     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 5320T  | 20    | 40      | 2.3        | 3.5                     | 2.9                  | 30         | 150     | Yes   | 64 GB                                    | Long-life use and NEBS-Thermal Friendly   |
| 5318Y  | 24    | 48      | 2.1        | 3.4                     | 2.6                  | 36         | 165     | Yes   | 64 GB                                    | Scalable Performance  |
| 5318H  | 18    | 36      | 2.5        | 3.8                     | 3.3                  | 24.75      | 150     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| 5318N  | 24    | 48      | 2.1        | 3.4                     | 2.7                  | 36         | 150     | Yes   | 64 GB                                    | Networking/NFV Optimized  |
| 5318S  | 24    | 48      | 2.1        | 3.4                     | 2.6                  | 36         | 165     | Yes   | 512 GB                                   | Supporting Maximum Intel SGX Enclave Capacity   |
| 4316   | 20    | 40      | 2.3        | 3.4                     | 2.8                  | 30         | 150     |   | 8 GB                                     | Scalable Performance  |
| 4314   | 16    | 32      | 2.4        | 3.4                     | 2.9                  | 24         | 135     | Yes   | 8 GB                                     | Scalable Performance  |
| 4310   | 12    | 24      | 2.1        | 3.3                     | 2.7                  | 18         | 120     |   | 8 GB                                     | Scalable Performance  |
| 4310T  | 10    | 20      | 2.3        | 3.4                     | 2.9                  | 15         | 105     |   | 8 GB                                     | Long-life use and NEBS-Thermal Friendly   |
| 4309Y  | 8     | 16      | 2.8        | 3.6                     | 3.4                  | 12         | 105     |   | 8 GB                                     | Scalable Performance  |

## ASUS 3rd Gen Intel Xeon Scalable Servers

The new ASUS series servers with 3rd Gen Intel Xeon Scalable processors help customers reduce the time to solution for a wide range of applications, add enhanced security features, and allow all workloads to be run in the cloud, on-premises or a private cloud. The RS720, RS700 and RS720Q-E10 series servers feature market-leading system flexibility and scalability in computing, storage and networking, enabling modern businesses to reduce costs and scale-up.

The ESC4000-E10 series servers are optimized for AI, data science, deep learning and HPC workloads. In addition, ASUS delivers enhanced server and infrastructure security by integrating PFR FPGA as the platform Root-of-Trust solution for firmware resiliency, plus regular firmware threat detection guard against and recover from security attacks.



### The World's First Real-Time RAM-Assessment Server

ASUS worked with firmware partners to improve both the efficiency of system-memory usage and management based on the 3rd Gen Intel Xeon Scalable platform. Intel Memory Failure Prediction (MFP) technology is built in to ASUS ASMB10-iKVM to minimize memory-failure rates and optimize migration when running critical workloads on virtual machines. This reduces the need for replacement DDR4 DIMMs, which in turn leads to significant cost benefits.



Improves SLA by reducing failure rates through proactive memory health evaluation

Enhances memory page offline policies

Optimises workload and VM migration decision-making

Improves DIMM loss policy which can reduce DIMM replacement costs

## These new ASUS Server features:

### Improved TCO with Memory Failure Prediction technology

A key factor in server downtime in data centres is errors caused by the high rate of memory failure. ASUS worked with firmware partners to improve both the efficiency of system-memory usage and management based on the 3rd Gen Intel Xeon Scalable platform. Intel Memory Failure Prediction (MFP) technology is built in to ASUS ASMB10-iKVM to minimize memory-failure rates and optimize migration when running critical workloads on virtual machines. This reduces the need for replacement DDR4 DIMMs, which in turn leads to significant cost benefits.

### Intel Select Solutions

For this launch, ASUS continues working closely with Intel and the company's Intel Select Solutions program that develops solution recipes for optimized performance, speeding time to deployment and increasing confidence in solution performance on HCI, storage, network, edge and HPC. All ASUS servers with 3rd Gen Intel Xeon Scalable processors deliver greater system efficiency with support for Intel Optane persistent memory 200 series, as well as support 100 Gb or 25 Gb Intel Ethernet 800 Series to meet the high networking demands of modern data centres.

These new servers are ready to incorporate into ASUS solutions that, once verified by Intel, will be offered as a part of the ASUS Intel Select Solutions portfolio. Intel Select Solutions are verified for performance using stringent testing procedures to ensure hardware and software compatibility, simplifying the decision-making process for enterprise and data-centre customers.

### Scalable storage solutions

ASUS servers based on 3rd Gen Intel Xeon Scalable processors feature scalable storage solutions to support maximum performance for data-centre flexibility, and enable industry-standard SAS/SATA/NVMe interfacing through Broadcom Tri-Mode RAID adapters for increased connectivity and security. Flexible NVMe drives on the front panel enable extensive storage and high-throughput performance, with more storage placements on middle and rear panels available for further capacity expansion.

### Remote IT-infrastructure management

With this generation, ASUS is also introducing the new ASUS ASMB10-iKVM server-management solution to support the latest Intel platforms. Building upon the ASPEED 2600 chipset running on the latest AMI MegaRAC SP-X that delivers faster BMC boot time up to 39% compared to the 2500 chipset and featuring enhanced BMC networking performance, all ASUS servers come with this solution and enable out-of-band server management through WebGUI, Intelligent Platform Management Interface (IPMI) and Redfish® API interfaces.

ASUS Control Center (ACC) is an integrated IT software enabling remote BIOS updates, monitoring of multiple systems via mobile devices, and one-click software updates and dispatching, allowing easier server management for any IT infrastructure.

# ASUS 3<sup>rd</sup> Gen Intel Xeon Scalable Portfolio

This range of ASUS servers provide powerful performance and help customers reduce the time to solution for a wide range of applications such as high performance computing, hyper-converged infrastructure and GPU-intensive workloads.



## RS700-E10-RS4U

### Scalable, High Performance 1U Server



1U form factor dual socket system supports the following:

**GPU:** Supports one dual-slot GPU for AI workloads

**CPU:** Dual 3<sup>rd</sup> Gen Intel Xeon Scalable Processor Family

**RAM:** 32 DIMMs; up to 512GB DDR4-3200MHz Optane DC Pmem 200 series

**PCIe:** Up to 3+1 slots

**Drive:** Up to 4x 3.5" hybrid NVMe/SAS/SATA Hot-swap drive bays

**Networking:** Optional 1x Quad Port Intel i350-AM4 1G LAN Controller, 1x Dual Port Intel X710-AT2 Gigabit 10G LAN Controller

**Power Supply:** 1600/1200W Redundant Power Supplies Titanium/Platinum level



## ESC4000-E10

### NVIDIA RTX Validated GPU System

**Use Case:** AI, data science, DL and HPC workloads



2U form factor dual socket system supports the following:

**GPU:** Supports 4x double-slot or 8x single-spot GPUs, validated by NVIDIA RTX

**CPU:** Dual 3<sup>rd</sup> Gen Intel Xeon Scalable Processor Family

**RAM:** 16 DIMMs; up to 2TB DDR4-3200MHz

**PCIe:** Up to 11x PCIe x16 4.0 slots

**Drive:** Up to 8x all-flash NVMe + 8x SATA/SAS hot-swap drive bays

**Networking:** 1 x Dual Port Intel I350-AM2 Gigabit LAN controller + 1 x Mgmt LAN

**Power Supply:** 1600/2200W Redundant Power Supplies Platinum level



### RS720-E10-RS12E

**Use Case:** HPC; Ubuntu Kubernetes, Red Hat OpenShift, AI training and data analytics

2U form factor dual socket system supports the following:

**GPU:** Supports 4x double-slot GPUs for AI workloads, NVIDIA Quadro RTX 6000/8000

**CPU:** Dual 3<sup>rd</sup> Gen Intel Xeon Scalable Processor Family

**RAM:** 32 DIMMs; up to 512GB DDR4-3200MHz Optane DC Pmem 200 series

**PCIe:** Up to 9x PCIe 4.0 slots

**Drive:** Up to 8x 3.5"/2.5" all-flash NVMe + 4x SATA/SAS Hot-swap drive bays

**Networking:** 4x Quad Port Intel i350-AM4 1G LAN Controller, 2x Dual Port Intel X710-AT2 Gigabit 10G LAN Controller

**Power Supply:** 2400W Redundant Power Supplies Platinum level



### RS720Q-E10-RS24U

**Use Case:** Hyper-Converged Infrastructure; Microsoft Azure Stack KCI, VMware vSAN Ready Node, CDN, cloud gaming, video streaming

2U form factor quad-node system supports the following:

**CPU:** Dual 3<sup>rd</sup> Gen Intel Xeon Scalable Processor Family

**RAM:** 16 DIMMs; DDR4-3200MHz, up to 512GB DDR4-3200MHz Optane DC Pmem 200 series

**PCIe:** Rear: 1x PCIe x16 slots per node

**Drive:** Up to 24x all-flash NVMe hot-swap drive bays

**Networking:** 1 x Dual Port Intel I350-AM2 Gigabit LAN controller

**Power Supply:** 3000W Redundant Power Supplies Platinum level

## Our Partnership with ASUS



Established in 1989, ASUS is a multinational company that is well known for the world's best motherboards and high-quality servers. The company has revolutionized the PC and mobile industry, looking to rapidly develop virtual and augmented reality solutions as well as IOT devices and robotics technologies. In addition, ASUS is worldly renowned for their contribution to technology, awarded with many significant titles and certifications.

Configure ASUS Intel based workstations and ASUS AMD based servers on our website to meet your business application. We locally build, deploy our solutions and provide support, within Australia and New Zealand.

**TALK TO US TODAY**

## DIGICOR

<https://digicor.com.au>

<https://digicor.co.nz>

### DIGICOR MELBOURNE (HQ)

10 Stamford Road, Oakleigh,  
Victoria 3166

+61 (03) 9567 8300

[melbourne@digicor.com.au](mailto:melbourne@digicor.com.au)

### DIGICOR NEW ZEALAND

7/39 Apollo Drive, Rosedale,  
Auckland 0632

+64 6477 0823

[sales@digicor.co.nz](mailto:sales@digicor.co.nz)

### DIGICOR SYDNEY

15/8 Avenue of America, Newington,  
New South Wales 2127

+61 (02) 9648 6800

[sydney@digicor.com.au](mailto:sydney@digicor.com.au)

### DIGICOR BRISBANE

7/160 Lytton Rd, Morningside  
Queensland 4170

+61 (07) 3217 9800

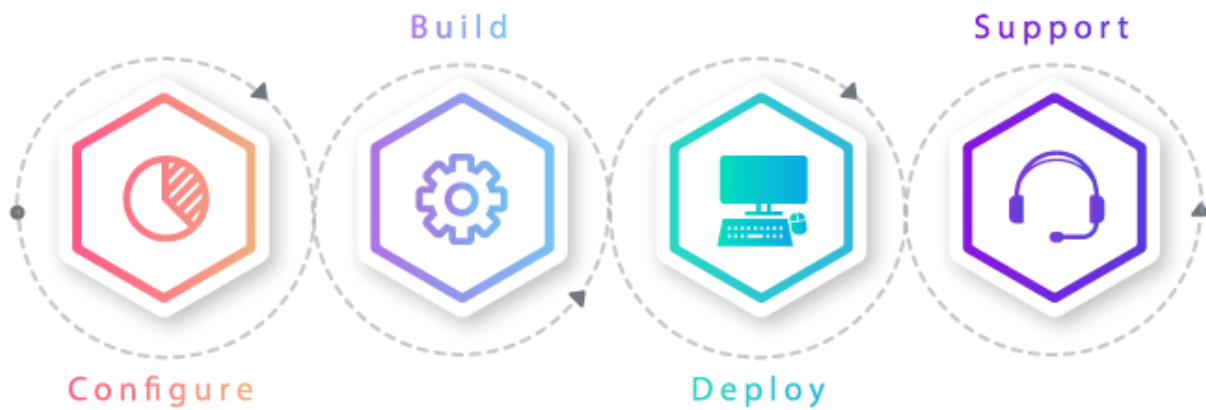
[brisbane@digicor.com.au](mailto:brisbane@digicor.com.au)

### DIGICOR PERTH

8/8 Welshpool Road, East Victoria Park  
Western Australia 6101

+61 (08) 9361 2626

[perth@digicor.com.au](mailto:perth@digicor.com.au)



## Configure

- Our system **configurator** helps customers design a computing solution that best fits their needs.
- The smart configurator provides helpful prompts to ensure that any design is validated.

## Build

- Our strict **quality assurance process** during assembly and testing ensures that systems leaving our build centre are free-from-defect and are operating as designed.

## Deploy

- Our **Australia & New Zealand** wide deployment services and support network means that where ever you are, you experience a smooth deployment.

## Support

- Our support team is available to assist in resolving and troubleshooting any issues with additional warranty support options such as **Next Business Day** or **24/7** service are available should you need it.

## FOLLOW US

-  <https://www.linkedin.com/company/digicor-pty-ltd/>
-  [https://twitter.com/DiGiCOR\\_AUS](https://twitter.com/DiGiCOR_AUS)
-  <https://www.facebook.com/Digicor-1934945686717615/>
-  [https://www.youtube.com/channel/UC1xIKvhrmts\\_LOWD7Dap16-Q](https://www.youtube.com/channel/UC1xIKvhrmts_LOWD7Dap16-Q)

**Australia Sales** : 1-300-192-308

**New Zealand Sales** : (+64) 9477 0823



## 3<sup>rd</sup> Gen Xeon Scalable “Ice Lake” Family

| Model         | Cores | Threads | Base (GHz) | Single Core Turbo (GHz) | All Core Turbo (GHz) | Cache (MB) | TDP (W) | Support for Intel Optane Persistent Memory 200 Series | Intel SGX Enclave capacity per processor | Features  |
|---------------|-------|---------|------------|-------------------------|----------------------|------------|---------|---|--|---|
| <b>8380HL</b> | 28    | 56      | 2.9        | 4.3                     | 3.8                  | 38.5       | 250     | Yes   | 512 GB                                   | 4 and 8 Socket Scalable Performance   |
| <b>8380H</b>  | 28    | 56      | 2.9        | 4.3                     | 3.8                  | 38.5       | 250     | Yes   | 512 GB                                   | 4 and 8 Socket Scalable Performance   |
| <b>8380</b>   | 40    | 80      | 2.3        | 3.4                     | 3                    | 60         | 270     | Yes   | 512 GB                                   | Optimised for highest-per-core scalable performance and supports maximum Intel SGX Enclave Capacity |
| <b>8376HL</b> | 28    | 56      | 2.6        | 4.3                     | 3.5                  | 38.5       | 205     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| <b>8376H</b>  | 28    | 56      | 2.6        | 4.3                     | 3.5                  | 38.5       | 205     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| <b>8368Q</b>  | 38    | 76      | 2.6        | 3.7                     | 3.3                  | 57         | 270     | Yes   | 512 GB                                   | Liquid Cooled, Supporting Maximum Intel SGX Enclave Capacity  |
| <b>8368</b>   | 38    | 76      | 2.4        | 3.4                     | 3.2                  | 57         | 270     | Yes   | 512 GB                                   | Optimised for highest-per-core scalable performance and supports maximum Intel SGX Enclave Capacity |
| <b>8362</b>   | 32    | 64      | 2.8        | 3.6                     | 3.5                  | 48         | 265     | Yes   | 64GB                                     | Optimised for highest-per-core scalable performance   |
| <b>8360Y</b>  | 36    | 72      | 2.4        | 3.5                     | 3.1                  | 54         | 250     | Yes   | 64GB                                     | Optimised for highest-per-core scalable performance   |
| <b>8360HL</b> | 24    | 48      | 3          | 4.2                     | 3.8                  | 33         | 225     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| <b>8360H</b>  | 24    | 48      | 3          | 4.2                     | 3.8                  | 33         | 225     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| <b>8358P</b>  | 38    | 76      | 2.6        | 3.7                     | 3.3                  | 57         | 270     | Yes   | 512 GB                                   | Cloud Optimized for VM Utilisation  |
| <b>8358</b>   | 32    | 64      | 2.6        | 3.4                     | 3.3                  | 48         | 250     | Yes   | 64GB                                     | Optimised for highest-per-core scalable performance   |
| <b>8356H</b>  | 8     | 16      | 3.9        | 4.4                     | 4.3                  | 35.75      | 190     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| <b>8354H</b>  | 18    | 36      | 3.1        | 4.3                     | 4                    | 24.75      | 205     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| <b>8353H</b>  | 18    | 36      | 2.5        | 3.8                     | 3.3                  | 24.75      | 150     | Yes   |  | 4 and 8 Socket Scalable Performance   |
| <b>8352M</b>  | 32    | 64      | 2.3        | 3.5                     | 3.1                  | 54         | 225     | Yes   | 64GB                                     | Media Processing Optimized  |
| <b>8352Y</b>  | 32    | 64      | 2.2        | 3.4                     | 2.8                  | 48         | 205     | Yes   | 64GB                                     | Scalable Performance  |
| <b>8352V</b>  | 36    | 72      | 2.1        | 3.5                     | 2.5                  | 54         | 1995    | Yes   | 8 GB                                     | Cloud Optimized for VM Utilisation  |
| <b>8352S</b>  | 32    | 64      | 2.2        | 3.4                     | 2.8                  | 48         | 205     | Yes   | 512 GB                                   | Supporting Maximum Intel SGX Enclave Capacity   |
| <b>8351N</b>  | 36    | 72      | 2.4        | 3.5                     | 3.1                  | 54         | 225     | Yes   | 64GB                                     | Single Socket Optimized, Networking/NFV Optimized   |

| Model         | Cores | Threads | Base (GHz) | Single Core Turbo (GHz) | All Core Turbo (GHz) | Cache (MB) | TDP (W) | Support for Intel Optane Persistent Memory 200 Series | Intel SGX Enclave capacity per processor | Features  |
|---------------|-------|---------|------------|-------------------------|----------------------|------------|---------|---|--|---|
| <b>6348H</b>  | 24    | 48      | 2.3        | 4.2                     | 3.1                  | 33         | 165     | Yes   |  | 4 and 8 Socket Scalable Performance                 |
| <b>6348</b>   | 28    | 56      | 2.6        | 3.5                     | 3.4                  | 42         | 235     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance |
| <b>6354</b>   | 18    | 36      | 3          | 3.6                     | 3.6                  | 39         | 205     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance |
| <b>6346</b>   | 16    | 32      | 3.1        | 3.6                     | 3.6                  | 36         | 205     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance |
| <b>6342</b>   | 24    | 48      | 2.8        | 3.5                     | 3.3                  | 36         | 230     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance |
| <b>6338</b>   | 32    | 64      | 2          | 3.2                     | 2.6                  | 48         | 205     | Yes   | 64 GB                                    | Scalable Performance                                |
| <b>6338T</b>  | 24    | 48      | 2.1        | 3.4                     | 2.7                  | 36         | 165     | Yes   | 64 GB                                    | Long-life use and NEBS-Thermal Friendly             |
| <b>6338N</b>  | 32    | 64      | 2.2        | 3.5                     | 2.7                  | 48         | 185     | Yes   | 64 GB                                    | Networking/NFV Optimized                            |
| <b>6336Y</b>  | 24    | 48      | 2.4        | 3.6                     | 3                    | 36         | 185     | Yes   | 64 GB                                    | Scalable Performance                                |
| <b>6334</b>   | 18    | 36      | 3.6        | 3.7                     | 3.6                  | 18         | 165     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance |
| <b>6330</b>   | 28    | 56      | 2          | 3.1                     | 2.6                  | 42         | 205     | Yes   | 64 GB                                    | Scalable Performance                                |
| <b>6330N</b>  | 28    | 56      | 2.2        | 3.4                     | 2.6                  | 42         | 165     | Yes   | 64 GB                                    | Networking/NFV Optimized                            |
| <b>6330H</b>  | 24    | 48      | 2          | 3.7                     | 2.8                  | 33         | 150     | Yes   |  | 4 and 8 Socket Scalable Performance                 |
| <b>6328HL</b> | 16    | 32      | 2.8        | 4.3                     | 3.7                  | 22         | 165     | Yes   |  | 4 and 8 Socket Scalable Performance                 |
| <b>6328HL</b> | 16    | 32      | 2.8        | 4.3                     | 3.7                  | 22         | 165     | Yes   |  | 4 and 8 Socket Scalable Performance                 |
| <b>6326</b>   | 16    | 32      | 2.9        | 3.5                     | 3.3                  | 24         | 185     | Yes   | 64 GB                                    | Optimised for highest-per-core scalable performance |
| <b>6314U</b>  | 32    | 64      | 2.3        | 3.4                     | 2.9                  | 48         | 205     | Yes   | 64 GB                                    | Single Socket Optimized                             |
| <b>6312U</b>  | 24    | 48      | 2.4        | 3.6                     | 3.1                  | 36         | 185     | Yes   | 64 GB                                    | Single Socket Optimized                             |
| <b>5320</b>   | 26    | 52      | 2.2        | 3.4                     | 2.8                  | 39         | 185     | Yes   | 64 GB                                    | Scalable Performance                                |
| <b>5320H</b>  | 20    | 40      | 2.4        | 4.2                     | 3.3                  | 27.5       | 150     | Yes   |  | 4 and 8 Socket Scalable Performance                 |
| <b>5320T</b>  | 20    | 40      | 2.3        | 3.5                     | 2.9                  | 30         | 150     | Yes   | 64 GB                                    | Long-life use and NEBS-Thermal Friendly             |
| <b>5318Y</b>  | 24    | 48      | 2.1        | 3.4                     | 2.6                  | 36         | 165     | Yes   | 64 GB                                    | Scalable Performance                                |
| <b>5318H</b>  | 18    | 36      | 2.5        | 3.8                     | 3.3                  | 24.75      | 150     | Yes   |  | 4 and 8 Socket Scalable Performance                 |
| <b>5318N</b>  | 24    | 48      | 2.1        | 3.4                     | 2.7                  | 36         | 150     | Yes   | 64 GB                                    | Networking/NFV Optimized                            |
| <b>5318S</b>  | 24    | 48      | 2.1        | 3.4                     | 2.6                  | 36         | 165     | Yes   | 512 GB                                   | Supporting Maximum Intel SGX Enclave Capacity       |

| Model        | Cores | Threads | Base (GHz) | Single Core Turbo (GHz) | All Core Turbo (GHz) | Cache (MB) | TDP (W) | Support for Intel Optane Persistent Memory 200 Series | Intel SGX Enclave capacity per processor | Features                                |
|--------------|-------|---------|------------|-------------------------|----------------------|------------|---------|---|--|---|
| <b>4316</b>  | 20    | 40      | 2.3        | 3.4                     | 2.8                  | 30         | 150     |   | 8 GB                                     | Scalable Performance                    |
| <b>4314</b>  | 16    | 32      | 2.4        | 3.4                     | 2.9                  | 24         | 135     | Yes   | 8 GB                                     | Scalable Performance                    |
| <b>4310</b>  | 12    | 24      | 2.1        | 3.3                     | 2.7                  | 18         | 120     |   | 8 GB                                     | Scalable Performance                    |
| <b>4310T</b> | 10    | 20      | 2.3        | 3.4                     | 2.9                  | 15         | 105     |   | 8 GB                                     | Long-life use and NEBS-Thermal Friendly |
| <b>4309Y</b> | 8     | 16      | 2.8        | 3.6                     | 3.4                  | 12         | 105     |   | 8 GB                                     | Scalable Performance                    |