



Add To Compare

Specifications | Ordering & Compliance | Downloads | Support

Essentials | Essentials | Download Specifications ↓

CPU Specifications	Product Collection	Intel® Xeon® 6 processors
Intel® Speed Select Technology - Performance (Intel® SST-PP)	Code Name	Products formerly Sierra Forest
Supplemental Information	Vertical Segment	Server
Memory Specifications	Processor Number	6740E
Expansion Options	Lithography	Intel 3
Package Specifications	Recommended Customer Price	\$3949.00

CPU Specifications	
Total Cores	96
Total Threads	96
Max Turbo Frequency	3.2 GHz
All Core Turbo Frequency	3.2 GHz
Processor Base Frequency	2.4 GHz
Cache	96 MB
Intel® UPI Speed	20 GT/s
Max # of UPI Links	4
TDP	250 W

Intel® Speed Select Technology - Performance Profile (Intel® SST-PP)

Config	Active Cores	Base Frequency	TDP	Description
6740E(0)	96	2.4	250	Server Mode
6740E(1)	96	3.2	250	Networking Mode
6740E(2)	80	3.2	225	Networking Mode

Supplemental Information

Marketing Status	Launched
Launch Date	Q2'24
Embedded Options Available	Yes

Memory Specifications

Max Memory Size (dependent on memory type)	4 TB
Memory Types	DDR5-6400
Maximum Memory Speed	6400 MT/s
Max # of Memory Channels	8
ECC Memory Supported	Yes

Expansion Options

Scalability	25
PCI Express Revision	5.0
Max # of PCI Express Lanes	88

Package Specifications

Sockets Supported	FCLGA4710
Package Carrier	E2B
DTS Max	106 °C
T <sub>CASE</sub>	84
Package Size	77.5mm x 56.5mm

## Advanced Technologies

Intel® QuickAssist Technology (QAT)	4 default devices
Intel® Dynamic Load Balancer (DLB)	4 default devices
Intel® Data Streaming Accelerator (DSA)	2 default devices
Intel® In-memory Analytics Accelerator (IAA)	2 default devices
Intel® Speed Select Technology – Core Power <a href="#">?</a>	Yes
Intel® Speed Select Technology – Turbo Frequency <a href="#">?</a>	Yes
Intel® Deep Learning Boost (Intel® DL Boost) on CPU <a href="#">?</a>	Yes
Intel® Speed Select Technology - Performance Profile <a href="#">?</a>	Yes
Intel® Speed Select Technology - Base Frequency <a href="#">?</a>	Yes
Intel® Resource Director Technology (Intel® RDT) <a href="#">?</a>	Yes
Intel® 64 † <a href="#">?</a>	Yes
Instruction Set Extensions <a href="#">?</a>	Intel® AVX2
# of AVX-512 FMA Units <a href="#">?</a>	2
Intel® Volume Management Device (VMD) <a href="#">?</a>	Yes

## Security &amp; Reliability

Intel® Trust Domain Extensions (Intel® TDX) <a href="#">?</a>	Yes
Intel® Crypto Acceleration <a href="#">?</a>	Yes
Intel® QuickAssist Software Acceleration	Yes
Intel® Platform Firmware Resilience Support	Yes
Intel® Control-Flow Enforcement Technology <a href="#">?</a>	Yes
Intel® Total Memory Encryption - Multi Key	Yes
Intel® Total Memory Encryption <a href="#">?</a>	Yes
Intel® AES New Instructions <a href="#">?</a>	Yes
Intel® Software Guard Extensions (Intel® SGX) <a href="#">?</a>	Yes
Default Maximum Enclave Page Cache (EPC) Size for Intel® SGX	512 GB
Intel® OS Guard	Yes
Intel® Trusted Execution Technology † <a href="#">?</a>	Yes
Execute Disable Bit † <a href="#">?</a>	Yes
Intel® Boot Guard <a href="#">?</a>	Yes
Mode-based Execute Control (MBEC) <a href="#">?</a>	Yes
Intel® Virtualization Technology (VT-x) † <a href="#">?</a>	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) † <a href="#">?</a>	Yes

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

Intel classifications are for general, educational and planning purposes only and consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company as an importer and/or exporter is responsible for determining the correct classification of your transaction.

Refer to Datasheet for formal definitions of product properties and features.

† This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See <http://www.intel.com/content/www/us/en/processors/processor-numbers.html> for details.

Recommended Customer Price (RCP) is pricing guidance only for Intel products. Prices are for direct Intel customers, usually represent 1,000-unit purchase quantities, and are subject to change without notice. Prices may vary for other package types and shipment quantities. In bulk, price represents individual unit. Listing of RCP does not constitute a formal pricing offer from Intel.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

\*Announced\* SKUs are not yet available. Please refer to the Launch Date for market availability.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

## Company Overview

Contact Intel

Newsroom

Investors

Careers

Corporate Responsibility

Inclusion

Public Policy



© Intel Corporation

[Terms of Use](#)

[\\*Trademarks](#)

[Cookies](#)

[Privacy](#)

[Supply Chain Transparency](#)

[Site Map](#)

[Recycling](#)

Intel technologies may require enabled hardware, software or service activation. // No product or component can be absolutely secure. // Your costs and results may vary. // Performance varies by use, configuration, and other factors. Learn more at [intel.com/performanceindex](#). // See our complete legal [Notices and Disclaimers](#). // Intel is committed to respecting human rights and avoiding causing or contributing to adverse impacts on human rights. See Intel's [Global Human Rights Principles](#). Intel's products and software are intended only to be used in applications that do not cause or contribute to adverse impacts on human rights.

