

ARK | Compare Intel® Products

07/25/2022 08:16:45 AM

,Intel® Xeon® Gold 6230 Processor (27.5M Cache- 2.10 GHz)

#### Essentials

Product Collection,2nd Generation Intel® Xeon® Scalable Processors

Code Name,Products formerly Cascade Lake

Vertical Segment,Server

Processor Number,6230

Status,Launched

Launch Date,Q2'19

Lithography,14 nm

Use Conditions,Server/Enterprise

Recommended Customer Price,\$2027.00

#### CPU Specifications

Total Cores,20

Total Threads,40

Max Turbo Frequency,3.90 GHz

Processor Base Frequency,2.10 GHz

Cache,27.5 MB

Max # of UPI Links,3

TDP,125 W

#### Supplemental Information

Embedded Options Available,Yes

Product Brief,View now

#### Memory Specifications

Max Memory Size (dependent on memory type),1 TB

Memory Types,DDR4-2933

Maximum Memory Speed,2933 MHz

Max # of Memory Channels,6

ECC Memory Supported ‡,Yes

Intel® Optane™ Persistent Memory Supported,Yes

#### Expansion Options

Scalability,4S

PCI Express Revision,3.0

Max # of PCI Express Lanes,48

#### Package Specifications

Sockets Supported,FCLGA3647

TCASE,87°C

Package Size,76.0mm x 56.5mm

#### Advanced Technologies

Intel® Deep Learning Boost (Intel® DL Boost),Yes

Intel® Speed Select Technology - Performance Profile,No

Intel® Speed Select Technology - Base Frequency,No

Intel® Resource Director Technology (Intel® RDT),Yes  
Intel® Speed Shift Technology,Yes  
Intel® Turbo Boost Max Technology 3.0 ‡,No  
Intel® Turbo Boost Technology ‡,2.0  
Intel® Hyper-Threading Technology ‡,Yes  
Intel® Transactional Synchronization Extensions,Yes  
Intel® 64 ‡,Yes  
Instruction Set Extensions,Intel® SSE4.2 | Intel® AVX | Intel® AVX2 | Intel® AVX-512  
# of AVX-512 FMA Units,2  
Enhanced Intel SpeedStep® Technology,Yes  
Intel® Volume Management Device (VMD),Yes

#### Security & Reliability

Intel vPro® Platform Eligibility ‡,Yes  
Intel® AES New Instructions,Yes  
Intel® Trusted Execution Technology ‡,Yes  
Execute Disable Bit ‡,Yes  
Intel® Run Sure Technology,Yes  
Mode-based Execute Control (MBEC),Yes  
Intel® Virtualization Technology (VT-x) ‡,Yes  
Intel® Virtualization Technology for Directed I/O (VT-d) ‡,Yes  
Intel® VT-x with Extended Page Tables (EPT) ‡,Yes