

PROCESOR INTEL® XEON® GOLD 6142F

(22 MB pamięci cache, 2,60 GHz)



Dane techniczne

Essentials

Lithography	14 nm
Vertical Segment	Server
Processor Number	6142F
Launch Date	Q3'17
Status	Launched

Performance

# of Cores	16
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Cache	22 MB L3
TDP	160.0 W
Processor Base Frequency	2.60 GHz
# of Threads	32
Max Turbo Frequency	3.70 GHz

Supplemental Information

Conflict Free	Yes
Embedded Options Available	No

Memory Specifications

ECC Memory Supported [†]	Yes
Max # of Memory Channels	6
Memory Types	DDR4-2666
Max Memory Size (dependent on memory type)	768 GB

Expansion Options

PCI Express Revision	3.0
Scalability	2S
Max # of PCI Express Lanes	48

Package Specifications

T _{CASE}	87°C
Sockets Supported	FCLGA3647

Package Size	88.0mm x 56.5mm BGA
Low Halogen Options Available	No
Advanced Technologies	
Intel® vPro Technology [†]	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) [†]	Yes
Intel® Turbo Boost Max Technology 3.0 [†]	No
Intel® Hyper-Threading Technology [†]	Yes
Intel® Virtualization Technology (VT-x) [†]	Yes
Intel® TSX-NI	Yes
Intel® 64 [†]	Yes
Intel® Optane™ Memory Supported [†]	No
Enhanced Intel SpeedStep® Technology	Yes
Intel® Speed Shift Technology	Yes
Instruction Set Extensions	Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512
Intel® Turbo Boost Technology [†]	2.0
Intel® VT-x with Extended Page Tables (EPT) [†]	Yes
Security & Reliability	
Trusted Execution Technology [†]	Yes
Execute Disable Bit [†]	Yes
Intel® AES New Instructions	Yes