

# Intel Xeon 6238R processor 2.2 GHz 38.5 MB

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CD8069504448701

**Product name :** 6238R



Intel Xeon Gold 6238R Processor (38.5MB Cache, up to 4 GHz)  
 Intel Xeon 6238R. Processor family: Intel® Xeon® Gold, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Package type: Retail box. Processor package size: 76mm x 56.5mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel Trusted Execution Technology	✓
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Speed Shift Technology	✓
Processor model *	6238R	Intel® Transactional Synchronization Extensions	✓
Processor base frequency *	2.2 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel® Xeon® Gold	Intel 64	✓
Processor cores *	28	Intel Virtualization Technology (VT-x)	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Component for	Server/workstation	Intel Turbo Boost Max Technology 3.0	✗
Processor lithography *	14 nm	AVX-512 Fused Multiply-Add (FMA) units	2
Processor threads	56	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor operating modes *	64-bit	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Processor boost frequency	4 GHz	Intel® Resource Director Technology (Intel® RDT)	✓
Processor cache	38.5 MB	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	165 W	Intel® Run Sure Technology	✓
Box *	✗	Mode-based Execute Control (MBE)	✓
Cooler included *	✗	Intel® Optane™ DC Persistent Memory Supported	✓
Processor codename	Cascade Lake	Intel® vPro™ Platform Eligibility	✓
Processor ARK ID	199345	Intel Speed Select Technology (SST)	✗
		Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
		Intel® Optane™ DC Persistent Memory technology	✓
Memory		Operational conditions	
Maximum internal memory supported by processor	1.02 TB	Tcase	89 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2933 MHz	Launch date	Q1'20
Memory channels *	Hexa-channel	Product type	Processor
ECC	✓	Status	Launched
Graphics		Supported memory types	DDR4-SDRAM
On-board graphics card *	✗	Memory speed (max)	2933 MHz
Discrete graphics card *	✗	Number of UPI links	2
On-board graphics card model *	Not available	Servicing status	Baseline Servicing
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	48		
PCI Express slots version	3.0		
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512		
Scalability	2S		
Embedded options available	✗		

Features		Logistics data	
PCI Express CEM revision	3.0	Harmonized System (HS) code	85423119
Export Control Classification Number (ECCN)	5A992C	Packaging data	
Commodity Classification Automated Tracking System (CCATS)	G077159	Package type	Retail box
Processor special features		Weight & dimensions	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Processor package size	76mm x 56.5mm
Intel® Turbo Boost Technology	2.0	Other features	
Intel® AES New Instructions (Intel® AES-NI)	✓	Maximum internal memory	1 TB
Enhanced Intel SpeedStep Technology	✓		



0675901818353



675901818353



8592978281137

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.