

## Intel Xeon 6238R processor 2.2 GHz 38.5 MB Box

Brand : Intel

Product family: Xeon

Product code: BX806956238R

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 width: 43 mm, Package depth: 137 mm, Package height: 112 mm. Processor package size: 76mm x 56.5mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Transactional Synchronization Extensions	✓
Processor model *	6238R	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.2 GHz	Intel 64	✓
Processor family *	Intel® Xeon® Gold	Intel Virtualization Technology (VT-x)	✓
Processor cores *	28	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor socket *	LGA 3647 (Socket P)	Intel Turbo Boost Max Technology 3.0	✗
Component for	Server/workstation	AVX-512 Fused Multiply-Add (FMA) units	2
Processor lithography *	14 nm	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor threads	56	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Processor operating modes *	64-bit	Intel® Resource Director Technology (Intel® RDT)	✓
Processor boost frequency	4 GHz	Intel® Volume Management Device (VMD)	✓
Processor cache	38.5 MB	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	165 W	Mode-based Execute Control (MBE)	✓
Box *	✓	Intel® Optane™ DC Persistent Memory Supported	✓
Cooler included *	✓	Intel® vPro™ Platform Eligibility	✓
Processor codename	Cascade Lake	Intel Speed Select Technology (SST)	✗
Processor ARK ID	199345	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
<b>Memory</b>		Intel® Optane™ DC Persistent Memory technology	✓
Maximum internal memory supported by processor	1.02 TB	<b>Operational conditions</b>	
Memory types supported by processor	DDR4-SDRAM	Tcase	89 °C
Memory clock speeds supported by processor	2933 MHz	<b>Technical details</b>	
Memory channels *	Hexa-channel	Launch date	Q1'20
ECC	✓	Product type	Processor
<b>Graphics</b>		Status	Launched
On-board graphics card *	✗	Supported memory types	DDR4-SDRAM
Discrete graphics card *	✗	Memory speed (max)	2933 MHz
On-board graphics card model *	Not available	Number of UPI links	2
Discrete graphics card model *	Not available	Servicing status	Baseline Servicing
<b>Features</b>		<b>Logistics data</b>	
Execute Disable Bit	✓	Harmonized System (HS) code	85423119
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		Packaging data	
PCI Express CEM revision	3.0	Package width	43 mm
Export Control Classification Number (ECCN)	5A992C	Package depth	137 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package height	112 mm
		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		
Intel® AES New Instructions (Intel® AES-NI)	✓	Other features	
Enhanced Intel SpeedStep Technology	✓	Maximum internal memory	1 TB
Intel Trusted Execution Technology	✓		



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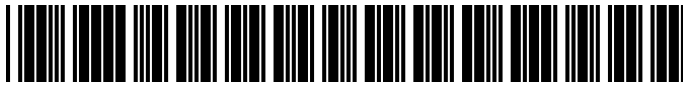
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