

G3420

INTEL PENTIUM PROCESSOR, 4TH GEN

SPECIFICATIONS	
Essentials	
Product Collection	Intel Pentium Processor G Series
Code Name	Haswell
Vertical Segment	Desktop
Processor Number	G3420
Lithography	22 nm
Performance	
# of Cores	2
# of Threads	2
Processor Base Frequency	3.20 GHz
Cache	3 MB Smart Cache
Bus Speed	5 GT/s
TDP	53 W
Memory Specifications	
Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1333/1600, DDR3L-1333/1600 @ 1.5V
Max # of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported ‡	Yes
Processor Graphics	
Processor Graphics ‡	Intel® HD Graphics for 4 th Generation Intel Processors
Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	1.15 GHz
Graphics Output	eDP/ DP/ HDMI/ DVI/ VGA
Graphics Video Max Memory	1.7 GB
Max Resolution (HDMI 1.4)‡	1920x1080 @ 60Hz
Max Resolution (DP)‡	2560x1600 @ 60Hz
Max Resolution (eDP - Integrated Flat Panel)‡	2560x1600 @ 60Hz
Max Resolution (VGA)‡	1920x1200 @ 60Hz
DirectX* Support	11.1/ 12
OpenGL* Support	4.3
Intel® Quick Sync Video	Yes
Intel® Clear Video HD Technology	No
# of Displays Supported ‡	3
Package Specifications	
Sockets Supported	FCLGA1150
Max CPU Configuration	1
Thermal Solution Specification	PCG 2013C
Package Size	37.5mm x 37.5mm
Security & Reliability	
Intel® AES New Instructions	No
Intel® Trusted Execution Technology ‡	No
Execute Disable Bit ‡	Yes



Expansion Options	
Scalability	1S Only
PCI Express Revision	Up to 3.0
PCI Express Configurations ‡	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes	16
Advanced Technologies	
Intel® Optane™ Memory Supported ‡	No
Intel® Turbo Boost Technology ‡	No
Intel® vPro™ Platform Eligibility ‡	No
Intel® Hyper-Threading Technology ‡	No
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	No
Intel® VT-x with Extended Page Tables (EPT) ‡	Yes
Intel® Transactional Synchronization Extensions	No
Intel® 64 ‡	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® SSE4.1, Intel® SSE4.2
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Thermal Monitoring Technologies	Yes
Intel® Stable Image Platform Program (SIPP)	No

*All product specifications and product images are subject to change without notice.