

PROCESOR INTEL® PENTIUM® GOLD 4415Y

(2 MB pamięci cache, 1,60 GHz)



Dane techniczne

Essentials

Status	Launched
Processor Number	4415Y
Vertical Segment	Mobile
Launch Date	Q2'17
Lithography	14 nm

Performance

TDP	6.0 W
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Bus Speed	4 GT/s OPI
Configurable TDP-down	4.5 W
Cache	2 MB SmartCache
# of Cores	2
# of Threads	4
Processor Base Frequency	1.60 GHz
Supplemental Information	
Embedded Options Available	No
Conflict Free	Yes
Memory Specifications	
ECC Memory Supported [†]	No
Max # of Memory Channels	2
Memory Types	LPDDR3-1866, DDR3L-1600
Max Memory Size (dependent on memory type)	16 GB
Max Memory Bandwidth	29.8 GB/s
Graphics Specifications	
4K Support	Yes, at 60Hz
Graphics Base Frequency	300.0 MHz
Max Resolution (eDP - Integrated Flat Panel) [‡]	4096x2304@60Hz
	Intel® Clear Video HD Technology
Yes	

DirectX* Support	12
Graphics Max Dynamic Frequency	0.85 GHz
Max Resolution (HDMI 1.4)‡	4096x2304@24Hz
Max Resolution (DP)‡	4096x2304@60Hz
Graphics Output	eDP/DP/HDMI/DVI
Intel® Quick Sync Video	Yes
OpenGL* Support	4.4
Device ID	0x591E
# of Displays Supported †	3
Graphics Video Max Memory	16 GB
Intel® Clear Video Technology	Yes
Expansion Options	
PCI Express Revision	3.0
Max # of PCI Express Lanes	10
PCI Express Configurations †	1x4, 2x2, 1x2+2x1 and 4x1
Package Specifications	
Package Size	20mm X 16.5mm
Max CPU Configuration	1
T _{JUNCTION}	100°C
Low Halogen Options Available	No
Sockets Supported	FCBGA1515

Advanced Technologies

Intel® VT-x with Extended Page Tables (EPT) †	Yes
	Intel® My WiFi Technology
Yes	
Intel® Virtualization Technology (VT-x) †	Yes
Intel® Speed Shift Technology	Yes
Intel® Turbo Boost Technology †	No
Thermal Monitoring Technologies	Yes
Intel® vPro Technology †	No
Intel® Virtualization Technology for Directed I/O (VT-d) †	Yes
Intel® Smart Response Technology	Yes
Idle States	Yes
Instruction Set Extensions	SSE4.1/4.2
Intel® Hyper-Threading Technology †	Yes
Intel® 64 †	Yes
Intel® Stable Image Platform Program (SIPP)	No
Intel® Flex Memory Access	Yes
Instruction Set	64-bit
Enhanced Intel SpeedStep® Technology	Yes
Intel® TSX-NI	No

Security & Reliability

Execute Disable Bit [†]	Yes
OS Guard	Yes
Intel® AES New Instructions	Yes
Intel® Memory Protection Extensions (Intel® MPX)	Yes
Trusted Execution Technology [†]	No
Intel® Software Guard Extensions (Intel® SGX)	Yes
Secure Key	Yes