

Intel Pentium G4560 processor 3.5 GHz 3 MB

Brand : Intel

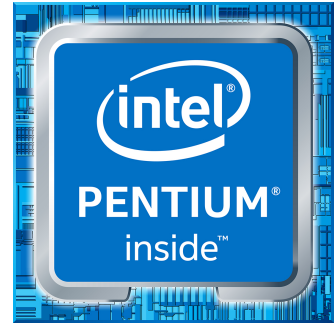
Product family: Pentium

Product code:
CM8067702867064

Product name : G4560

Intel® Pentium® Processor G4560
(3M Cache, 3.50 GHz)

Intel Pentium G4560. Processor family: Intel Pentium G, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR4-SDRAM, DDR3L-SDRAM. On-board graphics card model: Intel® HD Graphics 610, Maximum on-board graphics card memory: 64 GB, On-board graphics card outputs supported: DisplayPort, Embedded DisplayPort (eDP), HDMI. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2. Package width: 70 mm, Package depth: 116 mm, Package height: 101 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	G4560	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor base frequency *	3.5 GHz	Intel® Turbo Boost Technology	✗
Processor family *	Intel Pentium G	Intel® Quick Sync Video Technology	✓
Processor cores *	2	Intel® InTru™ 3D Technology	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Component for	PC	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography *	14 nm	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Pentium G4500 Series For Desktop	Intel Trusted Execution Technology	✗
Processor threads	4	Intel® Memory Protection Extensions (Intel® MPX)	✓
System bus rate	8 GT/s	Intel® Transactional Synchronization Extensions	✗
Processor operating modes *	64-bit	Intel Enhanced Halt State	✓
Processor cache	3 MB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Thermal Design Power (TDP)	54 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel® Secure Key	✓
Cooler included *	✗	Intel TSX-NI	✗
Stepping	B0	Intel Stable Image Platform Program (SIPP)	✗
Bus type	DMI3	Intel® OS Guard	✓
Processor codename	Kaby Lake	Intel Clear Video Technology	✓
Processor code	SSSSR32Y	Intel Software Guard Extensions (Intel SGX)	✓
Processor ARK ID	97143	Intel 64	✓
Memory		Intel Identity Protection Technology version	1.00
Maximum internal memory supported by processor	64 GB	Intel Secure Key Technology version	1.00
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM	Intel Stable Image Platform Program (SIPP) version	0.00
Memory clock speeds supported by processor	1333,1600,2133,2400 MHz	Intel Virtualization Technology (VT-x)	✓
Memory voltage supported by processor	1.35 V	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory channels *	Dual-channel	Intel TSX-NI version	0.00
ECC	✓	Conflict-Free processor	✓
Graphics			
On-board graphics card *	✓		
On-board graphics card model *	Intel® HD Graphics 610		
Maximum on-board graphics card memory	64 GB		
On-board graphics card outputs supported	DisplayPort, Embedded DisplayPort (eDP), HDMI		

Graphics		Processor special features	
On-board graphics card base frequency	350 MHz	Intel® Optane™ Memory Ready	✗
On-board graphics card dynamic frequency (max)	1050 MHz	Intel® Boot Guard	✓
Number of displays supported (on-board graphics)	3	Intel® vPro™ Platform Eligibility	✗
On-board graphics card 4K support	✓	Operational conditions	
On-board graphics card DirectX version	12.0	Tjunction	100 °C
On-board graphics card OpenGL version	4.4	Technical details	
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Bus bandwidth	8
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Bus type units	GT/s
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Launch date	Q1'17
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
On-board graphics card ID	0x5902	Processor cache	3072 KB
Features		Product type	Processor
Execute Disable Bit	✓	Status	Discontinued
Idle States	✓	Maximum memory	64 GB
Thermal Monitoring Technologies	✓	Processor brand name	Intel Pentium
Market segment	Desktop	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Maximum number of PCI Express lanes	16	Last change	63903513
PCI Express slots version	3.0	Product family	Intel Pentium Processor
PCI Express configurations	1x16, 2x8, 1x8+2x4	Bus speed	8 GT/s
Supported instruction sets	SSE4.1, SSE4.2	Maximum graphics card memory	64 GB
Scalability	1S	Processor ID	0x5902
CPU configuration (max)	1	Logistics data	
Embedded options available	✗	Harmonized System (HS) code	8542310001
Graphics & IMC lithography	14 nm	Packaging data	
Thermal solution specification	PCG 2015C	Package width	70 mm
PCI Express CEM revision	3.0	Package depth	116 mm
Export Control Classification Number (ECCN)	5A992C	Package height	101 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package weight	337 g
		Package type	Retail box
		Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB
		Video decoding	✓



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