

Intel Core i3-6100 processor 3.7 GHz 3 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8066201927202

Product name : i3-6100

Intel® Core™ i3-6100 Processor
(3M Cache, 3.70 GHz)

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Your days just got a little bit easier. With fast wake and faster CPU, your processor will last longer and work smarter. Watch movies with crisp pictures thanks to Iris™ graphics technology. Seamlessly change from your PC to your tablet for maximum versatility – all using the 6th Generation Intel® Core™ processors.

Ready. Wake. Create.

From zero to power in a flash, the 6th generation Intel® Core™ processor wakes quicker than ever and lets you switch in and out of apps more seamlessly than ever.

Stunning Visual Experiences

With 6th generation Intel® Core™ Ultra HD graphics, your screen comes to life. Watch in a whole new way with 4k screens. Wireless displays let you create and game anywhere.

Security You Can Trust

Worry-free and hassle-free security is yours. With facial recognition and True Key™ technology, getting you logged in and protected has never been easier or more secure.



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Wireless Display (Intel® WiDi)	✓
Processor generation	6th gen Intel® Core™ i3	Intel FDI Technology	✗
Processor model *	i3-6100	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor base frequency *	3.7 GHz	Intel Dual Display Capable Technology	✗
Processor family *	Intel® Core™ i3	Intel® Insider™	✓
Processor cores *	2	Intel Fast Memory Access	✗
Processor socket *	LGA 1151 (Socket H4)	Intel Flex Memory Access	✗
Component for	PC	Intel® Smart Cache	✓
Processor lithography *	14 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor series	Intel Core i3-6100 Desktop series	Enhanced Intel SpeedStep Technology	✓
Processor threads	4	Intel Trusted Execution Technology	✗
System bus rate	8 GT/s	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor operating modes *	64-bit	Intel® Transactional Synchronization Extensions	✗
Processor cache	3 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Thermal Design Power (TDP)	51 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel Demand Based Switching	✗
Cooler included *	✗	Intel® Secure Key	✓
Generation	6th Generation	Intel TSX-NI	✗
Stepping	S0	Intel Rapid Storage Technology	✗
FSB Parity	✗	Intel Stable Image Platform Program (SIPP)	✗
Bus type	DMI3	Intel® OS Guard	✓
Memory bandwidth supported by processor (max)	34.1 GB/s	Intel® Small Business Advantage (Intel® SBA)	✓
Processor codename	Skylake		
Processor ARK ID	90729		
Memory			
Maximum internal memory supported by processor	64 GB		
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM		

Memory		Processor special features	
Memory clock speeds supported by processor	1866,1333,2133,1600 MHz	Intel Clear Video Technology	✓
Memory voltage supported by processor	1.35 V	Intel Software Guard Extensions (Intel SGX)	✓
Memory channels *	Dual-channel	Intel 64	✓
ECC	✓	Intel Identity Protection Technology version	1.00
Graphics		Intel Secure Key Technology version	1.00
On-board graphics card *	✓	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card model *	Intel® HD Graphics 530	Intel Stable Image Platform Program (SIPP) version	0.00
Maximum on-board graphics card memory	64 GB	Intel Virtualization Technology (VT-x)	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card base frequency	350 MHz	Intel TSX-NI version	0.00
On-board graphics card dynamic frequency (max)	1050 MHz	Conflict-Free processor	✓
Number of displays supported (on-board graphics)	3	Intel® Optane™ Memory Ready	✗
On-board graphics card 4K support	✓	Intel® Boot Guard	✓
On-board graphics card DirectX version	12.0	Intel® vPro™ Platform Eligibility	✗
On-board graphics card OpenGL version	4.5	Operational conditions	
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Tcase	65 °C
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Technical details	
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Born on date	Q3'15
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Bus bandwidth	8
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Bus type units	GT/s
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Graphics max dynamic frequency	1.05 GHz
On-board graphics card ID	0x1912	Launch date	Q3'15
Features		Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
Execute Disable Bit	✓	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
Idle States	✓	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
Thermal Monitoring Technologies	✓	Maximum resolution & refresh rate (VGA)	N/A
Market segment	Desktop	OpenGL support	✓
Maximum number of PCI Express lanes	16	Processor cache	3072 KB
PCI Express slots version	3.0	Product name	Intel Core i3-6100 (3M Cache, 3.70 GHz)
PCI Express configurations	1x16, 2x8, 1x8+2x4	Product type	Processor
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Status	Launched
Scalability	1S	Video compression formats	✓
CPU configuration (max)	1	Maximum graphics card memory	1740 MB
Embedded options available	✓	Maximum memory	64 GB
Graphics & IMC lithography	14 nm	Processor brand name	Intel Core i3 Intel Core i3 Processor
Thermal solution specification	PCG 2015C	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
PCI Express CEM revision	3.0	Last change	63903513
Export Control Classification Number (ECCN)	5A992C	Maximum resolution (WiDi)	1080p
Commodity Classification Automated Tracking System (CCATS)	G077159	Product family	6th Generation Intel Core i3 Processors
Processor special features		Bus speed	8 GT/s
Intel® Anti-Theft Technology (Intel® AT)	✗	Maximum graphics card memory	64 GB
		Processor ID	0x1912
		Servicing status	End of Servicing Lifetime
		End of servicing updates date	Friday, September 30, 2022
		Logistics data	
		Harmonized System (HS) code	85423119
		Packaging data	
		Package type	Retail box

Processor special features

Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® My WiFi Technology (Intel® MWT)	✗
Intel® Turbo Boost Technology	✗
Intel® Quick Sync Video Technology	✓
Intel® InTru™ 3D Technology	✓

Weight & dimensions

Processor package size	37.5 x 37.5 mm
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Other features

Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Maximum internal memory	64 GB
Maximum internal memory	65536 MB
Graphics output	eDP/DP/HDMI/DVI
Cache memory	3 MB
Video decoding	✓



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