

Intel Core i7-6700T processor 2.8 GHz 8 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8066201920202

Product name : i7-6700T



Intel® Core™ i7-6700T Processor

(8M Cache, up to 3.60 GHz)

Intel Core i7-6700T. Processor family: Intel® Core™ i7, 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 530, Maximum on-board graphics card memory: 64 GB, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 3.6 GHz

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor generation	6th gen Intel® Core™ i7	Intel® Quick Sync Video Technology	✓
Processor model *	i7-6700T	Intel® InTru™ 3D Technology	✓
Processor base frequency *	2.8 GHz	Intel® Wireless Display (Intel® WiDi)	✓
Processor family *	Intel® Core™ i7	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cores *	4	Intel® Insider™	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	PC	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	14 nm	Intel Trusted Execution Technology	✓
Processor series	Intel Core i7-6700 Desktop series	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor threads	8	Intel® Turbo Boost Technology 2.0 frequency	3.6 GHz
System bus rate	8 GT/s	Intel® Transactional Synchronization Extensions	✓
Processor operating modes *	64-bit	Intel Enhanced Halt State	✓
Processor boost frequency	3.6 GHz	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Processor cache	8 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel® Secure Key	✓
Thermal Design Power (TDP)	35 W	Intel TSX-NI	✓
Box *	✗	Intel Stable Image Platform Program (SIPP)	✓
Cooler included *	✗	Intel® OS Guard	✓
Generation	6th Generation	Intel® Small Business Advantage (Intel® SBA)	✓
Stepping	R0	Intel Clear Video Technology	✓
Bus type	DMI3	Intel Software Guard Extensions (Intel SGX)	✓
Memory bandwidth supported by processor (max)	34.1 GB/s	Intel 64	✓
Processor codename	Skylake	Intel Identity Protection Technology version	1.00
Processor code	SR2L3	Intel Secure Key Technology version	1.00
Processor ARK ID	88200	Intel Small Business Advantage (SBA) version	1.00
Memory		Intel Stable Image Platform Program (SIPP) version	1.00
Maximum internal memory supported by processor	64 GB		
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM		
Memory clock speeds supported by processor	1333,1600,1866 MHz		
Memory voltage supported by processor	1.35 V		
Memory channels *	Dual-channel		
ECC	✗		
Graphics			
On-board graphics card *	✓		

Graphics		Processor special features	
On-board graphics card model *	Intel® HD Graphics 530	Intel Virtualization Technology (VT-x)	✓
Maximum on-board graphics card memory	64 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI	Intel TSX-NI version	1.00
On-board graphics card base frequency	350 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	1100 MHz	Intel® Optane™ Memory Ready	✗
Number of displays supported (on-board graphics)	3	Intel® Boot Guard	✓
On-board graphics card 4K support	✓	Intel® vPro™ Platform Eligibility	✓
On-board graphics card DirectX version	12.0	Operational conditions	
On-board graphics card OpenGL version	4.5	Tcase	66 °C
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Technical details	
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Bus bandwidth	8
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Bus type units	GT/s
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Launch date	Q3'15
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
On-board graphics card ID	0x1912	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
Features		Maximum resolution & refresh rate (VGA)	N/A
Execute Disable Bit	✓	Number of graphics cores	2
Idle States	✓	Processor cache	8192 KB
Thermal Monitoring Technologies	✓	Product type	Processor
Market segment	Desktop	Status	Launched
Maximum number of PCI Express lanes	16	Maximum memory	64 GB
PCI Express slots version	3.0	Processor brand name	Intel Core i7 Intel Core i7 Processor
PCI Express configurations	1x16, 2x8, 1x8+2x4	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Last change	63903513
Scalability	1S	Maximum resolution (WiDi)	1080p
CPU configuration (max)	1	Product family	6th Generation Intel Core i7 Processors
Embedded options available	✗	Bus speed	8 GT/s
Graphics & IMC lithography	14 nm	Maximum graphics card memory	64 GB
Thermal solution specification	PCG 2015A	Processor ID	0x1912
PCI Express CEM revision	3.0	Logistics data	
Export Control Classification Number (ECCN)	5A992C	Harmonized System (HS) code	8542310001
Commodity Classification Automated Tracking System (CCATS)	G077159	Packaging data	
Processor special features		Package width	70 mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Package depth	116 mm
Intel® Identity Protection Technology (Intel® IPT)	✓	Package height	101 mm
		Package weight	338 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
		Graphics output	eDP/DP/HDMI/DVI
		Video decoding	✓



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