

Intel 300 processor 6 MB Smart Cache Box

Brand : Intel

Product code: BX80715300

Product name : 300



Intel® Processor 300 (6M Cache, up to 3.90 GHz) FC-LGA16A
 Intel 300. Processor family: Intel Processor 300, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 192 GB, Memory types supported by processor: DDR4-SDRAM, DDR5-SDRAM. On-board graphics card model: Intel UHD Graphics 710, On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, On-board graphics card base frequency: 300 MHz. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. Processor package size: 45 x 37.5 mm

Processor		Features	
Processor manufacturer *	Intel	Use conditions	PC/Client/Tablet
Processor model *	300	Maximum number of PCI Express lanes	20
Processor family *	Intel Processor 300	PCI Express slots version	4.0, 5.0
Processor cores *	2	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor socket *	LGA 1700	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor threads	4	Scalability	1S
Processor operating modes *	64-bit	CPU configuration (max)	1
Performance cores	2	Embedded options available	✗
Performance-core base frequency	3.9 GHz	Thermal solution specification	PCG 2020C
Processor cache	6 MB	Direct Media Interface (DMI) Revision	4.0
Processor cache type	Smart Cache	Export Control Classification Number (ECCN)	5A992C
Box *	✓	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Cooler included *	✓	Processor special features	
Processor base power	46 W	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Stepping	H0	Intel® Quick Sync Video Technology	✓
Maximum number of DMI lanes	8	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor codename	Raptor Lake	Enhanced Intel SpeedStep Technology	✓
Processor ARK ID	236846	Intel® Speed Shift Technology	✓
Memory		Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Maximum internal memory supported by processor	192 GB	Intel® Control-flow Enforcement Technology (CET)	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Thread Director	✗
Memory channels *	Dual-channel	Intel VT-x with Extended Page Tables (EPT)	✓
Memory bandwidth (max)	76.8 GB/s	Intel® Secure Key	✓
Graphics		Intel® OS Guard	✓
On-board graphics card *	✓	Intel 64	✓
Discrete graphics card *	✗	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel UHD Graphics 710	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel® Boot Guard	✓
On-board graphics card base frequency	300 MHz	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board graphics card dynamic frequency (max)	1450 MHz	Intel® Volume Management Device (VMD)	✓
Number of displays supported (on-board graphics)	4		
On-board graphics card DirectX version	12.0		
On-board graphics card OpenGL version	4.5		
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels		

Graphics		Processor special features	
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Mode-based Execute Control (MBE)	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel® Standard Manageability (ISM)	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Operational conditions	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Technical details	
On-board graphics card ID	0x4693	OpenCL version	3.0
Discrete graphics card model *	Not available	Launch date	Q1'24
Number of execution units	16	Status	Launched
Multi-Format Codec Engines	1	Logistics data	
Features		Harmonized System (HS) code	8542310001
Execute Disable Bit	✓	Weight & dimensions	
Idle States	✓	Processor package size	45 x 37.5 mm
Thermal Monitoring Technologies	✓	Other features	
Market segment	Desktop	L2 cache	2560 KB
		Maximum internal memory	192 GB
		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1



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