

## Intel Celeron N4000 processor 1.1 GHz 4 MB

**Brand :** Intel

**Product family:** Celeron

**Product code:**  
FH8068003067417

**Product name :** N4000

Intel® Celeron® N4000 Processor  
(4M Cache, up to 2.60 GHz)

Intel Celeron N4000. Processor family: Intel® Celeron®, Processor socket: BGA 1090, Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 8 GB, Memory types supported by processor: DDR4-SDRAM, LPDDR4-SDRAM. On-board graphics card model: Intel® UHD Graphics 600, Maximum on-board graphics card memory: 8 GB, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, MIPI-DSI. Market segment: Desktop, PCI Express configurations: 1x4+1x2, 4x1, 2x1+1x2+1x2, Supported instruction sets: SSE4.2. USB version: 2.0/3.2 Gen 1 (3.1 Gen 1)



Processor		I/O configuration	
Processor manufacturer *	Intel	Number of SATA III connectors	2
Processor *	N4000	Integrated LAN	✗
Processor base frequency *	1.1 GHz	General Purpose IO	Yes
Processor family *	Intel® Celeron®	UART	✓
Processor number of cores *	2	<b>Processor special features</b>	
Processor socket *	BGA 1090	Intel Anti-Theft Technology	✗
Component for	PC	Intel Hyper-Threading Technology	✗
Processor lithography *	14 nm	Intel Identity Protection Technology	✓
Processor threads	2	Intel® Smart Response Technology	✗
Processor operating modes *	64-bit	Intel Turbo Boost Technology	✗
Processor boost frequency	2.6 GHz	Intel® Quick Sync Video Technology	✓
Processor cache	4 MB	Intel AES New Instructions	✓
Scenario Design Power (SDP)	4.8 W	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	6 W	Intel® Memory Protection Extensions (Intel® MPX)	✓
Box *	✗	Intel® Speed Shift Technology	✗
Cooler included *	✗	Intel Enhanced Halt State	✓
Processor codename	Gemini Lake	Intel VT-x with Extended Page Tables (EPT)	✓
Processor ARK ID	128988	Intel® Secure Key	✓
<b>Memory</b>		Intel® OS Guard	✓
Maximum internal memory supported by processor	8 GB	Intel Software Guard Extensions (Intel SGX)	✓
Memory types supported by processor	DDR4-SDRAM, LPDDR4-SDRAM	Intel 64	✓
Memory clock speeds supported by processor	2400 MHz	Intel Identity Protection Technology version	1.00
Memory channels *	Dual-channel	Intel Secure Key Technology version	1.00
ECC	✗	Intel Smart Response Technology version	0.00
<b>Graphics</b>		Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓		
On-board graphics card model *	Intel® UHD Graphics 600		

Graphics		Processor special features	
Maximum on-board graphics card memory	8 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, MIPI-DSI	Conflict-Free processor	✓
On-board graphics card base frequency	200 MHz	Intel Turbo Boost Max Technology 3.0	✗
On-board graphics card dynamic frequency (max)	650 MHz	Intel® Optane™ Memory Ready	✗
On-board graphics card burst frequency	650 MHz	Intel® vPro™ Platform Eligibility	✗
Number of displays supported (on-board graphics)	3	<b>Operational Conditions</b>	
On-board graphics card 4K support	✓	Tjunction	105 °C
On-board graphics card DirectX version	12.0	<b>Technical Details</b>	
On-board graphics card OpenGL version	4.4	Launch date	Q4'17
On-board graphics card ID	0x3185	OpenGL support	✓
Number of execution units	12	Processor cache	4096 KB
<b>Features</b>		Product type	System on Chip
Execute Disable Bit	✓	Status	Launched
Idle States	✓	Maximum memory	8 GB
Thermal Monitoring Technologies	✓	Processor brand name	Intel Celeron
Market segment	Desktop	Last change	63903513
Maximum number of PCI Express lanes	6	Product family	Intel Celeron Processor
PCI Express slots version	2.0	Intel® Speed Shift Technology version	0.00
PCI Express configurations	1x4+1x2, 4x1, 2x1+1x2+1x2	Built-in WiFi	Intel Wireless-AC MAC
Supported instruction sets	SSE4.2	Maximum graphics card memory	8 GB
CPU configuration (max)	1	Processor ID	0x3185
Embedded options available	✗	<b>Logistics data</b>	
PCI Express CEM revision	2.0	Harmonized System (HS) code	8542310001
Export Control Classification Number (ECCN)	5A992CN3	<b>Weight &amp; Dimensions</b>	
Commodity Classification Automated Tracking System (CCATS)	G165612	Processor package size	25mm x 24mm
<b>I/O configuration</b>		<b>Other features</b>	
USB version	2.0/3.2 Gen 1 (3.1 Gen 1)	Maximum internal memory	8 GB
Number of USBs	8	Maximum internal memory	8192 MB
Total number of SATA connectors	2	Graphics output	eDP/DP/HDMI/MIPI-DSI
		Video decoding	✓

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