* Lynnfield processors feature 16 [PCIe](https://en.wikipedia.org/wiki/PCI_Express) lanes, which can be used in 1x16 or 2x8 configuration.
* 1 6500 series scalable up to 2 sockets, 7500 series scalable up to 4/8 sockets.[[16]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-16)

**Server and desktop processors**[[edit](https://en.wikipedia.org/w/index.php?title=Nehalem_(microarchitecture)&action=edit&section=4)]

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| **Codename** | **Market** | [**Cores**](https://en.wikipedia.org/wiki/Multi-core)**/ Threads** | [**Socket**](https://en.wikipedia.org/wiki/CPU_socket) | **Processor Branding & Model** | | **CPU** [**Clock rate**](https://en.wikipedia.org/wiki/Clock_rate) | [**Turbo**](https://en.wikipedia.org/wiki/Turbo_Boost) | [**TDP**](https://en.wikipedia.org/wiki/Thermal_Design_Power) | **Interfaces** | | [**L3 cache**](https://en.wikipedia.org/wiki/CPU_cache#Multi-level_caches) | **Release Date** | **Price for 1k Unit** |
| **Chipset** | **Memory** |
| *Beckton*1 | MP Server / DP Server | 8 (16) | [LGA 1567](https://en.wikipedia.org/wiki/LGA_1567) | Xeon [[17]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-17) | X7560 | 2.26 GHz | Yes | 130 [W](https://en.wikipedia.org/wiki/Watt) | 4× [QPI](https://en.wikipedia.org/wiki/Intel_QuickPath_Interconnect) 6.4 [GT](https://en.wikipedia.org/wiki/Transfer_(computing))/s | DDR3-800 / 1066 (Up to 4x with [SMB](https://en.wikipedia.org/wiki/Small_and_medium_enterprises)-Ready Motherboard) | 24 [MB](https://en.wikipedia.org/wiki/Megabyte) | 2010-03-30[[18]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-18) | $3692 |
| X7550 | 2.0 GHz | 18 MB | $2837 |
| X6550 | $2461 |
| L7555 | 1.86 GHz | 95 W | 4× QPI 5.86 GT/s | 24 MB | $3157 |
| 6 (12) | E7540 | 2.0 GHz | 105 W | 4× QPI 6.4 GT/s | 18 MB | $1980 |
| E6540 | 12 MB | $1712 |
| E7530 | 1.86 GHz | 4× QPI 5.86 GT/s | $1391 |
| L7545 | 18 MB | $2087 |
| 6 (6) | X7542 | 2.66 GHz | 130 W | $1980 |
| 4 (8) | E7520 | 1.86 GHz | No | 105 W | 4× QPI 4.8 GT/s | $856 |
| E6510 | 1.73 GHz | 12 MB | $744 |
| *Gainestown* | DP Server[[19]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-Intel_Xeon_Processor_5500_Series-19) | 4 (8) | [LGA 1366](https://en.wikipedia.org/wiki/LGA_1366) | [Xeon](https://en.wikipedia.org/wiki/Gainestown_(microprocessor))[[20]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-macnn1-20) | W5590 | 3.33 [GHz](https://en.wikipedia.org/wiki/Hertz) | Yes | 130 W | 2× QPI 6.4 GT/s | 3× [DDR3](https://en.wikipedia.org/wiki/DDR3_SDRAM)-13331 | 8 MB | 2009-08-09 | $1600 |
| W5580 | 3.2 GHz | 2009-03-29[[21]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-21) | $1500 |
| X5570 | 2.93 GHz | 95 W | $1286 |
| X5560 | 2.8 GHz | $1072 |
| X5550 | 2.66 GHz | $858 |
| E5540 | 2.53 GHz | 80 W | 2× 5.86 GT/s | 3× DDR3-10661 | $744 |
| E5530 | 2.4 GHz | $530 |
| E5520 | 2.26 GHz | $373 |
| L5530 | 2.4 GHz | 60 W | 2009-08-09 | $744 |
| L5520 | 2.26 GHz | 2009-03-30 | $530 |
| L5518 | 2.13 GHz | $ |
| 4 (4) | E5507 | 2.26 GHz | No | 80 W | 2× 4.8 GT/s | 3× DDR3-8001 | 4 MB | 2010-03-16 | $266 |
| E5506 | 2.13 GHz | 2009-03-29 |
| L5506 | 2.13 GHz | 60 W | $423 |
| E5504 | 2.0 GHz | 80 W | $224 |
| 2 (4) | L5508 | 2.0 GHz | Yes | 38 W | 2× 5.86 GT/s | 3× DDR3-1066 | 8 MB | $ |
| 2 (2) | E5503 | 2.0 GHz | No | 80 W | 2× 4.8 GT/s | 3× DDR3-800 | 4 MB | 2010-03-16 | $224 |
| E5502 | 1.86 GHz | 2009-03-29 | $188 |
| *Jasper Forest* | 4 (8) | EC5549 | 2.53 GHz | Yes | 85 W | 1× 5.86 GT/s | 3× DDR3-1333 | 8 MB | 2010-02-11 | $530 |
| LC5528 | 2.13 GHz | 60 W | 1× 4.8 GT/s | 3× DDR3-1066 | $519 |
| LC5518 | 1.73 GHz | 48 W |
| 4 (4) | EC5509 | 2 GHz | No | 85 W | $265 |
| 2 (4) | EC5539 | 2.27 GHz | 65 W | 1× 5.86 GT/s | 3× DDR3-1333 | 4 MB | $387 |
| *Bloomfield* | UP Server[[22]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-Intel_Xeon_Processor_3500_Series-22) | 4 (8) | Xeon[[23]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-Intel_to_Add_New_Nehalem_Xeon_Processor-23) | W3580 | 3.33 GHz | Yes | 130 W | 1× QPI 6.4 GT/s | 3× DDR3-1333 | 8 MB | 2009-08-09 | $999 |
| W3570 | 3.2 GHz | 2009-03-29[[23]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-Intel_to_Add_New_Nehalem_Xeon_Processor-23) |
| W3565 | 3.2 GHz | 1× QPI 4.8 GT/s | 3× DDR3-1066 | 2009-11-01 | $562 |
| W3550 | 3.06 GHz | 2009-08-09 |
| W3540 | 2.93 GHz | 2009-03-29[[23]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-Intel_to_Add_New_Nehalem_Xeon_Processor-23) |
| W3530 | 2.8 GHz | 2010-03-16 | $294 |
| W3520 | 2.66 GHz | 2009-03-29[[23]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-Intel_to_Add_New_Nehalem_Xeon_Processor-23) | $284 |
| 2 (2) | W3505 | 2.53 GHz | No | 4 MB | $ |
| W3503 | 2.4 GHz | $ |
| *Jasper Forest* | 4 (4) | EC3539 | 2.13 GHz | 65 W | DMI | 8 MB | 2010-02-11 | $302 |
| 2 (4) | LC3528 | 1.73 GHz | Yes | 35 W | 3× DDR3-800 | 4 MB |
| 1 (1) | LC3518 | No | 23 W | 2 MB | $192 |
| *Lynnfield* | 4 (8) | [LGA 1156](https://en.wikipedia.org/wiki/LGA_1156) | X3480 | 3.06 GHz | Yes | 95 W | DMI | 2× DDR3-1333 | 8 MB | 2010-05-30 | $612 |
| X3470 | 2.93 GHz | 2009-09-08 | $589 |
| X3460 | 2.8 GHz | $316 |
| X3450 | 2.66 GHz | $241 |
| X3440 | 2.53 GHz | $215 |
| L3426 | 1.86 GHz | 45 W | $284 |
| 4 (4) | X3430 | 2.4 GHz | 95 W | $189 |
| *Bloomfield* | Enthusiast Desktop[[24]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-intel_core_i7_datasheet-24) | 4 (8) | LGA 1366 | [Core i7](https://en.wikipedia.org/wiki/Intel_Core_i7) Extreme | 975[[25]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-fundzilla_950_975-25) | 3.33 GHz | Yes | 130 W | 1× QPI 6.4 GT/s | 3× DDR3-1066 | 2009-05-31 | $999 |
| 965 | 3.2 GHz | 2008-11-17 |
| Core i7 | 960[[26]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-26) | 3.2 GHz | 1× QPI 4.8 GT/s | 2009-10-20 | $562 |
| 950[[25]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-fundzilla_950_975-25) | 3.06 GHz | 2009-05-31 |
| 940 | 2.93 GHz | 2008-11-17 |
| 930 | 2.8 GHz | 2010-02-28 | $294 |
| 920 | 2.66 GHz | 2008-11-17 | $284 |
| *Lynnfield* | Performance Desktop | LGA 1156 | 880 | 3.06 GHz | Yes | 95 W | [DMI](https://en.wikipedia.org/wiki/Direct_Media_Interface) | 2× DDR3-1333 | 2010-05-30 | $583 |
| 875K | 2.93 GHz | $342 |
| 870[[27]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-27) | 2009-09-08 | $562 |
| 870S | 2.66 GHz | 82 W | 2010-07-19 | $351 |
| 860 | 2.8 GHz | 95 W | 2009-09-08 | $284 |
| 860S | 2.53 GHz | 82 W | 2010-01-07 | $337 |
| 4 (4) | Core i5 | 760 | 2.8 GHz | 95 W | 2010-07-17 | $209 |
| 750[[28]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-28) | 2.66 GHz | 95 W | 2009-09-08 | $196 |
| 750S | 2.4 GHz | 82 W | 2010-01-07 | $259 |
| *Jasper Forest* | Embedded Desktop | 1 (2) | LGA 1366 | Celeron | P1053 | 1.33 GHz | No | 30 W | 3× DDR3-800 | 2 MB | 02-12-2010 | $160 |

* Intel states the Gainestown processors have six memory channels. Gainestown processors have dual QPI links and have a separate set of memory registers for each link in effect, a multiplexed six-channel system.[[29]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-29)[[30]](https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)#cite_note-Intel_Xeon_Processor_5500_Series_Datasheet_Volume_2.28PDF.29-30)