## Intel® Core™ i3 Desktop Processors Comparison Chart

**INSTRUCTIONS**
1. If the column heading is underlined, clicking on that will take you to a web site or document where you can get more information on that term.
2. Clicking on the individual processor number will take you to an Intel database that contains an expanded set of processor specifications.
3. Clicking on the individual box order code will take you to the Intel Desktop Compatibility Tool.
4. For complete memory support details click on the processor number (column 1) for specifications.

**Technical Documents = Datasheets, Design Guides, etc.**

### Processor Name and Generation
- **Number:** [1-8]
- **Launch Year:** [Q1'13 to Q4'18]
- **Processors:** [i3-4130 to i3-8350K]

### Box Order Number (Click to link to Compatible Motherboards)
- **Processors:** [G2 to G4]
- **Motherboards:** [LGA1151 to LGA1155]

### Processors Specification
- **Processors Socket:** [LGA1151 to LGA1155]
- **Base Frequency (GHz):** [3.7 to 4.1]
- **Cache (MB):** [3 to 6]
- **Cores/Threads:** [2/4]
- **Thermal Design Power (Watts):** [2400/1600/NA]
- **Graphics Speed (MHz):** [2400/1600/NA]

### Processors Graphics
- **Graphics:** [HD 4600, HD 530, UHD 630]
- **Graphics Speed:** [2400/1600/NA]

### Security & Reliability
- **New Instruction:** [VT-X, Intel® IPT]
- **Identity:** [Supported, *Maximum]
- **Max # of Memory Channels:** [2, 8]

### Advanced Technologies
- **Memory Technology:** [Supported, *Maximum]
- **Memory Supported:** [DDR4/DDR3L/DDR3]

### Performance
- **Launch:** [Q1'13 to Q4'18]
- **Generation:** [4th Gen to 8th Gen]
- **Specification:** [Yes/No/NA]
- **Box Order:** [Launch Year]
- **Number:** [1-8]

### Processor Packaging
- **Package:** [Yes/No]
- **Socket:** [LGA1151 to LGA1155]
- **Ordering:** [Yes/No/NA]

### Processor Specification
- **Processors:** [i3-4130 to i3-8350K]
- **Launch Year:** [Q1'13 to Q4'18]
- **Generation:** [4th Gen to 8th Gen]
- **Base Frequency (GHz):** [3.7 to 4.1]
- **Cache (MB):** [3 to 6]
- **Cores/Threads:** [2/4]
- **Thermal Design Power (Watts):** [2400/1600/NA]
- **Graphics Speed (MHz):** [2400/1600/NA]
- **Graphics:** [HD 4600, HD 530, UHD 630]
- **Graphics Speed:** [2400/1600/NA]
- **Graphics:** [Yes/No/NA]
- **Package:** [Yes/No]
- **Socket:** [LGA1151 to LGA1155]
- **Ordering:** [Yes/No/NA]
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### Processor Name and Generation | Ordering | Package Specification | Performance | Processor Graphics | Security & Reliability | Advanced Technologies | Memory Specifications | Bottom Support Documents
--- | --- | --- | --- | --- | --- | --- | --- | ---
**Low Power Desktop Processors**

<table>
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<tr>
<th>Processor Name and Generation</th>
<th>Processor Generation</th>
<th>Launch Year</th>
<th>Box Order Number (Click to link to Compatible Motherboards)</th>
<th>Processor Socket</th>
<th>Processor Base Frequency (GHz)</th>
<th>Cache (MB)</th>
<th>Cores/Threads</th>
<th>Intel® Graphics</th>
<th>Graphics Speed (MHz)</th>
<th>Intel® AES New Instructions (AES)</th>
<th>Intel® Virtualization Technology (VT-X)</th>
<th>Intel® Identity Protection Technology (Intel® IPT)</th>
<th>Intel® Optane™ Memory Supported</th>
<th>Max # of Memory Channels</th>
<th>* Maximum DDR4/DDR3L/DDR3 Supported Memory (MHz)</th>
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* The value in column (Maximum DDR4/DDR3L/DDR3) is the maximum value, please refer to the product specification page for other possible values supported.

**Intel® Core™ i3 Desktop Processor Top Support Documents**

- Technical Documents (Datasheets, Design Guides, etc.): Technical resources for the processors.
- Intel® Desktop Processor Support Resources: This document contains the most commonly sought after information on Intel® Desktop Processors.
- Intel® Desktop Processors Motherboard Compatibility Tool: Use this tool to find compatible motherboards for the Intel® Desktop Processor.
- Desktop Processor Warranty Frequently Asked Questions: This documents provides answers to frequently asked questions regarding processor warranty.

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Technical Documents = Datasheets, Design Guides, etc.;

Intel® Core™ i3 Desktop Processor Top Support Documents

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