



# Intel® Pentium® Processor G2120

3M Cache, 3.10 GHz

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## Specifications

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## Essentials

Export specifications

|                              |                                    |
|------------------------------|------------------------------------|
| Product Collection           | Intel® Pentium® Processor G Series |
| Code Name                    | Products formerly Ivy Bridge       |
| Vertical Segment             | Desktop                            |
| Processor Number             | G2120                              |
| Status                       | Launched                           |
| Launch Date ?                | Q3'12                              |
| Lithography ?                | 22 nm                              |
| Recommended Customer Price ? | -                                  |
| Use Conditions ?             | PC/Client/Tablet                   |

## Performance

|                            |                 |
|----------------------------|-----------------|
| # of Cores ?               | 2               |
| # of Threads ?             | 2               |
| Processor Base Frequency ? | 3.10 GHz        |
| Cache ?                    | 3 MB SmartCache |
| Bus Speed ?                | 5 GT/s DMI      |
| TDP ?                      | 55 W            |

## Supplemental Information

|                              |                          |
|------------------------------|--------------------------|
| Embedded Options Available ? | Yes                      |
| Datasheet                    | <a href="#">View now</a> |

## Memory Specifications

|                                              |                |
|----------------------------------------------|----------------|
| Max Memory Size (dependent on memory type) ? | 32 GB          |
| Memory Types ?                               | DDR3 1333/1600 |
| Max # of Memory Channels ?                   | 2              |
| Max Memory Bandwidth ?                       | 25.6 GB/s      |
| ECC Memory Supported † ?                     | Yes            |

## Processor Graphics

|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| Processor Graphics † ?    | Intel® HD Graphics for 3rd Generation Intel® Processors |
| Graphics Base Frequency ? | 650 MHz                                                 |

|                                                                                                                    |          |
|--------------------------------------------------------------------------------------------------------------------|----------|
| Graphics Max Dynamic Frequency      | 1.05 GHz |
| Intel® Quick Sync Video            | No       |
| Intel® InTru™ 3D Technology       | No       |
| Intel® Clear Video HD Technology  | No       |
| # of Displays Supported ‡                                                                                          | 3        |

## Expansion Options

|                                                                                                                |                            |
|----------------------------------------------------------------------------------------------------------------|----------------------------|
| PCI Express Revision          | 2.0                        |
| PCI Express Configurations ‡  | up to 1x16, 2x8, 1x8 & 2x4 |

## Package Specifications

|                                                                                                                  |                 |
|------------------------------------------------------------------------------------------------------------------|-----------------|
| Sockets Supported               | FCLGA1155       |
| Max CPU Configuration                                                                                            | 1               |
| Thermal Solution Specification  | 2011C           |
| Package Size                                                                                                     | 37.5mm x 37.5mm |

## Advanced Technologies

|                                                                                                                                                  |                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Intel® Optane™ Memory Supported ‡                               | No                           |
| Intel® Turbo Boost Technology ‡                                | No                           |
| Intel® vPro™ Platform Eligibility ‡                           | No                           |
| Intel® Hyper-Threading Technology ‡                           | No                           |
| Intel® Virtualization Technology (VT-x) ‡                     | Yes                          |
| Intel® Virtualization Technology for Directed I/O (VT-d) ‡  | No                           |
| Intel® VT-x with Extended Page Tables (EPT) ‡                 | Yes                          |
| Intel® 64 ‡                                                   | Yes                          |
| Instruction Set                                               | 64-bit                       |
| Instruction Set Extensions                                    | Intel® SSE4.1, Intel® SSE4.2 |
| Intel® My WiFi Technology                                     | No                           |
| Idle States                                                   | Yes                          |
| Enhanced Intel SpeedStep® Technology                          | Yes                          |
| Thermal Monitoring Technologies                               | Yes                          |

## Security & Reliability

|                                                                                                                           |     |
|---------------------------------------------------------------------------------------------------------------------------|-----|
| Intel® AES New Instructions            | No  |
| Secure Key                             | No  |
| Intel® Trusted Execution Technology ‡  | No  |
| Execute Disable Bit ‡                  | Yes |
| Anti-Theft Technology                  | No  |



Product Support



Downloads and Software



Support Community



Warranty and Replacement



## Need more help?

Contact support



Give Feedback

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Refer to Datasheet for formal definitions of product properties and features.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

See <http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading> for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See [www.intel.com/technology/turboboost/](http://www.intel.com/technology/turboboost/) for more information.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

For benchmarking data see <http://www.intel.com/performance>.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See <http://www.intel.com/content/www/us/en/processors/processor-numbers.html> for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.



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