



# Intel® Celeron® Processor G4900

2M Cache, 3.10 GHz

Spec Code

SR3W4

Ordering Code

CM8068403378112

## Intel® Celeron® Processor G4900 (2M Cache, 3.10 GHz)

|                                                |                         |
|------------------------------------------------|-------------------------|
| Code Name                                      | Coffee Lake             |
| <b><u>Essentials</u></b>                       |                         |
| Vertical Segment                               | Desktop                 |
| Processor Number                               | G4900                   |
| Status                                         | Launched                |
| Launch Date                                    | Q2'18                   |
| Lithography                                    | 14 nm                   |
| Recommended Customer Price                     | \$42.00                 |
| <b><u>Performance</u></b>                      |                         |
| # of Cores                                     | 2                       |
| # of Threads                                   | 2                       |
| Processor Base Frequency                       | 3.10 GHz                |
| Cache                                          | 2 MB SmartCache         |
| Bus Speed                                      | 8 GT/s DMI3             |
| TDP                                            | 54 W                    |
| <b><u>Supplemental Information</u></b>         |                         |
| Embedded Options Available                     | Yes                     |
| <b><u>Memory Specifications</u></b>            |                         |
| Max Memory Size (dependent on memory type)     | 64 GB                   |
| Memory Types                                   | DDR4-2400               |
| Max # of Memory Channels                       | 2                       |
| Max Memory Bandwidth                           | 37.5 GB/s               |
| ECC Memory Supported ‡                         | Yes                     |
| <b><u>Processor Graphics</u></b>               |                         |
| Processor Graphics <sup><small>‡</small></sup> | Intel® UHD Graphics 610 |
| Graphics Base Frequency                        | 350 MHz                 |
| Graphics Max Dynamic Frequency                 | 1.05 GHz                |
| Graphics Video Max Memory                      | 64 GB                   |

|                                                            |                              |
|------------------------------------------------------------|------------------------------|
| 4K Support                                                 | Yes, at 60Hz                 |
| Max Resolution (HDMI 1.4)‡                                 | 4096x2304@24Hz               |
| Max Resolution (DP)‡                                       | 4096x2304@60Hz               |
| Max Resolution (eDP - Integrated Flat Panel)‡              | 4096x2304@60Hz               |
| DirectX* Support                                           | 12                           |
| OpenGL* Support                                            | 4.5                          |
| Intel® Quick Sync Video                                    | Yes                          |
| Intel® InTru™ 3D Technology                                | Yes                          |
| Intel® Clear Video HD Technology                           | Yes                          |
| Intel® Clear Video Technology                              | Yes                          |
| # of Displays Supported ‡                                  | 3                            |
| Device ID                                                  | 0x3E93                       |
| <b><u>Expansion Options</u></b>                            |                              |
| Scalability                                                | 1S Only                      |
| PCI Express Revision                                       | 3                            |
| PCI Express Configurations ‡                               | Up to 1x16, 2x8, 1x8+2x4     |
| Max # of PCI Express Lanes                                 | 16                           |
| <b><u>Package Specifications</u></b>                       |                              |
| Sockets Supported                                          | FCLGA1151                    |
| Max CPU Configuration                                      | 1                            |
| Thermal Solution Specification                             | PCG 2015C (65W)              |
| T<sub>JUNCTION</sub>                                       | 100°C                        |
| Package Size                                               | 37.5mm x 37.5mm              |
| Low Halogen Options Available                              | See MDDS                     |
| <b><u>Advanced Technologies</u></b>                        |                              |
| Intel® Optane™ Memory Supported ‡                          | No                           |
| Intel® Turbo Boost Technology                              | No                           |
| Intel® vPro™ Technology ‡                                  | No                           |
| Intel® Hyper-Threading Technology ‡                        | No                           |
| Intel® Virtualization Technology (VT-x) ‡                  | Yes                          |
| Intel® Virtualization Technology for Directed I/O (VT-d) ‡ | Yes                          |
| Intel® VT-x with Extended Page Tables (EPT) ‡              | Yes                          |
| Intel® TSX-NI                                              | No                           |
| Intel® 64 ‡                                                | Yes                          |
| Instruction Set                                            | 64-bit                       |
| Instruction Set Extensions                                 | Intel® SSE4.1, Intel® SSE4.2 |
| Idle States                                                | Yes                          |
| Enhanced Intel SpeedStep® Technology                       | Yes                          |
| Thermal Monitoring Technologies                            | Yes                          |
| Intel® Stable Image Platform Program (SIPP)                | No                           |
| <b><u>Security &amp; Reliability</u></b>                   |                              |

|                                                  |     |
|--------------------------------------------------|-----|
| Intel® AES New Instructions                      | Yes |
| Secure Key                                       | Yes |
| Intel® Software Guard Extensions (Intel® SGX)    | Yes |
| Intel® Memory Protection Extensions (Intel® MPX) | No  |
| Intel® OS Guard                                  | No  |
| Intel® Trusted Execution Technology ‡            | No  |
| Execute Disable Bit ‡                            | Yes |
| Intel® Boot Guard                                | Yes |

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