



Intel® Celeron® Processor G6900E

4M Cache, 3.00 GHz

Spec Code

SRL6Q

Ordering Code

CM8071504653807

| Intel® Celeron® Processor G6900E (4M Cache- 3.00 GHz) | |
|---|---|
| Essentials | |
| Product Collection | Intel® Celeron® Processor G Series |
| Code Name | Products formerly Alder Lake |
| Vertical Segment | Embedded |
| Processor Number | G6900E |
| Status | Launched |
| Launch Date | Q1'22 |
| Lithography | Intel 7 |
| Use Conditions | Embedded Broad Market Commercial Temp |
| Recommended Customer Price | 44 |
| CPU Specifications | |
| Total Cores | 2 |
| # of Performance-cores | 2 |
| # of Efficient-cores | 0 |
| Total Threads | 2 |
| Performance-core Base Frequency | 3.00 GHz |
| Cache | 4 MB Intel® Smart Cache |
| Total L2 Cache | 2.5 MB |
| Processor Base Power | 46 W |
| Supplemental Information | |
| Embedded Options Available | Yes |
| Memory Specifications | |
| Max Memory Size (dependent on memory type) | 128 GB |
| Memory Types | Up to DDR5 4800 MT/s Up to DDR4 3200 MT/s |
| Max # of Memory Channels | 2 |
| Max Memory Bandwidth | 76.8 GB/s |
| Processor Graphics | |
| Processor Graphics ‡ | Intel® UHD Graphics 710 |
| Graphics Base Frequency | 300 MHz |
| Graphics Max Dynamic Frequency | 1.30 GHz |
| Graphics Output | eDP 1.4b DP 1.4a HDMI 2.1 |
| Execution Units | 16 |
| Max Resolution (HDMI)‡ | 4096 x 2160 @ 60Hz |

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|--|---|
| Max Resolution (DP)‡ | 7680 x 4320 @ 60Hz |
| Max Resolution (eDP - Integrated Flat Panel)‡ | 5120 x 3200 @ 120Hz |
| DirectX* Support | 12 |
| OpenGL* Support | 4.5 |
| Multi-Format Codec Engines | 1 |
| Intel® Quick Sync Video | Yes |
| Intel® Clear Video HD Technology | Yes |
| # of Displays Supported ‡ | 4 |
| Device ID | 0x4693 |
| OpenCL* Support | 2.1 |
| | |
| Expansion Options | |
| Direct Media Interface (DMI) Revision | 4 |
| Max # of DMI Lanes | 8 |
| Scalability | 1S Only |
| PCI Express Revision | 5.0 and 4.0 |
| PCI Express Configurations ‡ | Up to 1x16+4 2x8+4 |
| Max # of PCI Express Lanes | 20 |
| | |
| Package Specifications | |
| Sockets Supported | FCLGA1700 |
| Max CPU Configuration | 1 |
| Thermal Solution Specification | PCG 2020C |
| TJUNCTION | 100°C |
| Package Size | 45.0 mm x 37.5 mm |
| | |
| Advanced Technologies | |
| Intel® Gaussian & Neural Accelerator | 3 |
| Intel® Thread Director | No |
| Intel® Deep Learning Boost (Intel® DL Boost) | Yes |
| Intel® Optane™ Memory Supported ‡ | No |
| Intel® Speed Shift Technology | Yes |
| Intel® Turbo Boost Max Technology 3.0 ‡ | No |
| Intel® Turbo Boost 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® 64 ‡ | Yes |
| Instruction Set | 64-bit |
| Instruction Set Extensions | Intel® SSE4.1 Intel® SSE4.2 Intel® AVX2 |
| Idle States | Yes |
| Enhanced Intel SpeedStep® Technology | Yes |
| Thermal Monitoring Technologies | Yes |
| Intel® Volume Management Device (VMD) | Yes |
| | |
| Security & Reliability | |
| Intel® AES New Instructions | Yes |
| Secure Key | Yes |
| Intel® OS Guard | Yes |
| Execute Disable Bit ‡ | Yes |

