



Intel® Pentium® Gold G7400TE Processor

6M Cache, 3.00 GHz

Spec Code

SRL6S

Ordering Code

CM8071504654005

Intel® Pentium® Gold G7400TE Processor (6M Cache- 3.00 GHz)	
Essentials	
Product Collection	Intel® Pentium® Gold Processor Series
Code Name	Products formerly Alder Lake
Vertical Segment	Embedded
Processor Number	G7400TE
Status	Launched
Launch Date	Q1'22
Lithography	Intel 7
Use Conditions	Embedded Broad Market Commercial Temp
Recommended Customer Price	66
CPU Specifications	
Total Cores	2
# of Performance-cores	2
# of Efficient-cores	0
Total Threads	4
Performance-core Base Frequency	3.00 GHz
Cache	6 MB Intel® Smart Cache
Total L2 Cache	2.5 MB
Processor Base Power	35 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	1.35 GHz
Graphics Output	eDP 1.4b DP 1.4a HDMI 2.1
Execution Units	16
Max Resolution (HDMI)‡	4096 x 2160 @ 60Hz

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 2020D
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 ‡	Yes
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

