

CPU Inference Engines:	Xeon® 2124G	Xeon® W1290P	Xeon® Silver 4216R	Xeon® Gold 5218T
Motherboard	ASUSTeK COMPUTER INC. / WS C246 PRO	ASUSTeK COMPUTER INC. / Pro WS W480-ACE	Intel Corporation / S2600STB	Intel Corporation / S2600STB
CPU	Intel® Xeon® E-2124G CPU @ 3.40GHz	Intel® Xeon® W-1290P CPU @ 3.70GHz	Intel® Xeon® Silver 4216R CPU @ 2.20GHz	Intel® Xeon® Gold 5218T CPU @ 2.10GHz
Hyper Threading	off	on	on	on
Turbo Setting	on	on	on	on
Memory	2 x 16 GB DDR4 2666MHz	4 x 16 GB DDR4 @ 2666 MHz.	12 x 32 GB DDR4 2666MHz	12 x 32 GB DDR4 2666MHz
Operating System	Ubuntu* 20.04.3 LTS	Ubuntu* 20.04.3 LTS	Ubuntu* 20.04.3 LTS	Ubuntu* 20.04.3 LTS
Kernel version	5.4.0-42-generic	5.4.0-42-generic	5.3.0-24-generic	5.3.0-24-generic
BIOS Vendor	American Megatrends Inc.	American Megatrends Inc.	Intel Corporation	Intel Corporation
BIOS Version	1901	2302	SE5C620.86B.02.01.0013.121520200651	SE5C620.86B.02.01.0013.121520200651
BIOS Release	9/24/2021	7/8/2021	12/15/2020	12/15/2020
Batch size	Auto-batching	Auto-batching	Auto-batching	Auto-batching
Precision	INT8/FP32	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	Automatic	Automatic	Automatic	Automatic
Test Date	12/13/2022	12/13/2022	12/13/2022	12/13/2022
Power dissipation/socket, TDP in Watt	71	125	125	105
CPU Price on 12/13/2022, Prices may vary	\$249	\$594	\$1,002	\$1,572

CPU Inference Engines:	Xeon® Platinum 8270	Intel® Xeon® Platinum 6336Y	Intel® Xeon® Platinum 6448Y	Core i3-8100
Motherboard	Intel Corporation / S2600STB	Intel Corporation / Whitley E63448-400	Intel Corporation / Archer City	Gigabyte Technology Co., Ltd. / Z390 UD
CPU	Intel® Xeon® Platinum 8270 CPU @ 2.70GHz	Intel(R) Xeon(R) Gold 6336Y CPU @ 2.40GHz	Intel(R) Xeon(R) Gold 6448Y CPU @ 2.10GHz	Intel® Core™ i3-8100 CPU @ 3.60GHz
Hyper Threading	on	on	on	off
Turbo Setting	on	on	on	off
Memory	12 x 32 GB DDR4 2933MHz	8 x 16 GB DDR4 3200MHz	16 x 16 GB DDR5 4800MHz	4 x 8 GB DDR4 2400MHz
Operating System	Ubuntu* 20.04.3 LTS	Ubuntu* 20.04.5 LTS	Ubuntu* 22.04.1 LTS	Ubuntu* 20.04.3 LTS
Kernel version	5.3.0-24-generic	5.15.47+prerelease4158	5.15.0-058-generic	5.4.0-42-generic
BIOS Vendor	Intel Corporation	Intel Corporation	Intel Corporation	American Megatrends Inc.
BIOS Version	SE5C620.86B.02.01.0009.092820190230	SE5C6200.86B.0027.P15.2205121306	EGSDCRB1.SYS.9207.P03.2211041115	F8
BIOS Release	9/28/2019	5/12/2022	11/4/2022	5/24/2019
Batch size	Auto-batching	Auto-batching	Auto-batching	Auto-batching
Precision	INT8/FP32	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	Automatic	Automatic	Automatic	Automatic
Test Date	12/13/2022	12/13/2022	1/14/2023	12/13/2022
Power dissipation/socket, TDP in Watt	205	185	225	65
CPU Price on 12/13/2022, Prices may vary	\$8,477	\$2,339	\$3,583	\$117

CPU Inference Engines:	Core i5-8500	Core i5-10500TE	Core i7-8700T	Core i9-12900K
Motherboard	ASUSTeK COMPUTER INC. / PRIME Z370-A	Gigabyte Technology Co., Ltd. / Z490 AORUS PRO AX	Gigabyte Technology Co., Ltd. / Z370M DS3H-CF	Intel Corporation Alder Lake Client Platform
CPU	Intel® Core™ i5-8500 CPU @ 3.00GHz	Intel® Core™ i5-10500TE CPU @ 2.30GHz	Intel® Core™ i7-8700T CPU @ 2.40GHz	Intel® Core™ i9-12900K CPU @ 2.40GHz
Hyper Threading	off	on	on	on
Turbo Setting	on	on	on	on
Memory	2 x 16 GB DDR4 2666MHz	2 x 16 GB DDR4 @ 2666 MHz	4 x 16 GB DDR4 2400MHz	4 x 8 GB DDR5 4800MHz
Operating System	Ubuntu* 20.04.3 LTS	Ubuntu* 20.04.3 LTS	Ubuntu* 20.04.3 LTS	Ubuntu* 22.04.1 LTS
Kernel version	5.4.0-42-generic	5.4.0-42-generic	5.4.0-42-generic	5.15.0-56-generic
BIOS Vendor	American Megatrends Inc.	American Megatrends Inc.	American Megatrends Inc.	American Megatrends Inc.
BIOS Version	3004	F21	F14c	ADLSFW11.R00.2257.A01.2106221245
BIOS Release	7/12/2021	11/23/2021	3/23/2021	6/22/2021
Batch size	Auto-batching	Auto-batching	Auto-batching	Auto-batching
Precision	INT8/FP32	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	Automatic	Automatic	Automatic	Automatic
Test Date	12/13/2022	12/13/2022	12/13/2022	12/13/2022
Power dissipation/socket, TDP in Watt	65	35	35	165
CPU Price on 12/13/2022, Prices may vary	\$192	\$214	\$303	\$658

CPU Inference Engines:	Core i9-10900TE	TGL-UP3	Atom x5-E3940	Intel® Atom® x6425RE
Motherboard	iEi / B595	NUC11TNBi7		Intel Corporation / ElkhartLake LPDDR4x T3 CRB
CPU	Intel® Core™ i9-10900TE CPU @ 1.80GHz	11th Gen Intel(R) Core(TM) i7-1165G7 @ 2.80GHz	Intel(R) Atom(TM) Processor E3940 @ 1.60GHz	Intel Atom(R) x6425RE Processor @ 1.90GHz
Hyper Threading	on	on	off	off
Turbo Setting	on	on	on	on
Memory	2 x 8 GB DDR4 @ 2400 MHz	2 x 32 GB DDR4 3200MHz	1 x 8 GB DDR3 1600MHz	2 x 4 GB LPDDR4 3200MHz
Operating System	Ubuntu* 18.04 LTS	Ubuntu* 20.04.5 LTS	Ubuntu* 20.04.3 LTS	Ubuntu 18.04.5 LTS
Kernel version	5.8.0-05-generic	5.15.0-53-generic	5.4.0-42-generic	5.8.0-050800-generic
BIOS Vendor	American Megatrends Inc.	Intel Corporation	American Megatrends Inc.	Intel Corporation
BIOS Version	Z667AR10	TNTGL357.0042.2020.1221.1743	5.12	EHLFSW11.R00.3382.A06.2109291614
BIOS Release	7/15/2020	12/21/2020	9/6/2017	9/29/2021
Batch size	1	Auto-batching	Auto-batching	Auto-batching
Precision	INT8	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	5	Automatic	Automatic	Automatic
Test Date	12/13/2022	12/13/2022	12/13/2022	12/13/2022
Power dissipation/socket, TDP in Watt	35	28	9.5	12
CPU Price on 12/13/2022, Prices may vary	\$544	\$469	\$34	\$67

CPU Inference Engines:	Intel® Celeron® 6305E	Core i5-13600K	Core i9-12900K
Motherboard	Intel Corporation / TigerLake U DDR4 SODIMM RVP	Intel Corporation NUC13SBBi5 / M89887-303	Intel Corporation Alder Lake Client Platform
CPU	Intel(R) Celeron(R) 6305E @ 1.80GHz	Intel® Core™ i5-13600K CPU @ 3.5 GHz	Intel® Core™ i9-13900K CPU @ 3.0GHz
Hyper Threading	off	on	on
Turbo Setting	on	on	on
Memory	2 x 8 GB DDR4 3200MHz	2 x 32 GB DDR5 4800MHz	2 x 32 GB DDR5 4800MHz
Operating System	Ubuntu 20.04.5 LTS	Ubuntu* 22.04.6 LTS	Ubuntu* 22.04.6 LTS
Kernel version	5.15.0-53-generic	5.15.0-67-generic	5.15.0-67-generic
BIOS Vendor	Intel Corporation	Intel Corporation	Intel Corporation
BIOS Version	TGLIFUI1.R00.4391.A03.2201140438	SBRPL579.0053.2022.1125.0101	SBRPL579.0053.2022.1125.0101
BIOS Release	1/14/2022	11/25/2022	11/25/2022
Batch size	Auto-batching	Auto-batching	Auto-batching
Precision	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	Automatic	Automatic	Automatic
Test Date	12/13/2022	3/17/2023	3/17/2023
Power dissipation/socket, TDP in Watt	15	125	125
CPU Price on 4/7/2023, Prices may vary	\$118	\$574	\$329

GPU Inference Engines:	Data Center GPU
GPU	Flex-170
Connection	PCIe G4, 1x16
Batch size	Automatic
Precision	FP32, INT8
Number of concurrent inference requests	Automatic
Memory	16 GB DDR6 0.7 TB/s
HPC & AI	FP32, FP16, BF16, INT8, INT4
Form Factor	3/4L Full Height, Passively cooled
Cache L3	16 MB
EUs	512
Device ID	8086-56C0
Test Date	12/13/2022
TDP	150 W
GPU Price on 12/20/2022, Prices may vary	\$1,925
Host Machine	CYP M50CYP2SBSTD
Motherboard	Intel Corporation Coyote Pass M50CYP2SBSTD
CPU	Intel® Xeon® Gold 6338 CPU @ 2.00GHz
Hyper Threading	on
Turbo Setting	on
Memory	16 x 16 GB DDR4 3200MHz
Operating System	Ubuntu 22.04.1 LTS
Kernel version	5.15.47+prerelease4056
BIOS Vendor	Intel Corporation
BIOS Version	SE5C6200.86B.0020.P41.2109300305
BIOS Release	2/16/2022