

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* 20.04.6 LTS	Ubuntu* 20.04.6 LTS	Ubuntu* 20.04.6 LTS	Ubuntu* 20.04.6 LTS
Kernel version	5.4.0-42-generic	5.4.0-42-generic	5.4.0-148-generic	5.4.0-148-generic
BIOS Vendor	American Megatrends Inc.	American Megatrends Inc.	Intel Corporation	Intel Corporation
BIOS Version	1901	2301	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	1	1	1	1
Precision	INT8/FP32	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	4	10	32	32
Test Date	5/25/2023	5/25/2023	5/25/2023	5/25/2023
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® Silver 4316	Intel® Xeon® Platinum 8380	Intel® Xeon® Platinum 8490H
Motherboard	Intel Corporation / S2600STB	M50CYP2SB1U Coyote Pass	M50CYP2SB1U Coyote Pass	Intel Corporation / Archer City
CPU	Intel® Xeon® Platinum 8270 CPU @ 2.70GHz	Intel(R) Xeon(R) Silver 4316 CPU @ 2.30GHz	Intel(R) Xeon(R) Gold 6448Y CPU @ 2.10GHz	Intel(R) Xeon(R) Gold 6448Y CPU @ 2.10GHz
Hyper Threading	on	on	on	on
Turbo Setting	on	on	on	on
Memory	12 x 32 GB DDR4 2933MHz	16 x 16 GB DDR4 3200MHz	16 x 16 GB DDR4 3200MHz	16 x 16 GB DDR5 4800MHz
Operating System	Ubuntu* 20.04.6 LTS	Ubuntu* 22.04.2 LTS	Ubuntu* 22.04.2 LTS	Ubuntu* 22.04.2 LTS
Kernel version	5.15.0-72-generic	5.19.0-41-generic	5.19.0-38-generic	5.19.0-041-generic
BIOS Vendor	Intel Corporation	Intel Corporation	Intel Corporation	Intel Corporation
BIOS Version	SE5C620.86B.02.01.0009.092820190230	SE5C620.86B.01.01.0006.2207150335	SE5C620.86B.01.01.0006.2207150335	EGSDREL1.SYS.9409.P31.2302280828
BIOS Release	9/28/2019	7/15/2022	7/15/2022	2/28/2023
Batch size	1	1	1	1
Precision	INT8/FP32	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	52	40	80	120
Test Date	5/25/2023	5/25/2023	5/25/2023	5/25/2023
Power dissipation/socket, TDP in Watt	205	150	270	350
CPU Price on 05/22/2022, Prices may vary	\$8,477	\$1,137	\$9,359	\$17,000

CPU Inference Engines:	Atom x5-E3940	Intel® N200	Intel® Celeron® 6305E	Core i3-8100
Motherboard		Intel Corporation / Alder Lake N RVP	Intel Corporation / TigerLake U DDR4 SODIMM RVP	Gigabyte Technology Co., Ltd. / Z390 UD
CPU	Intel(R) Atom(TM) Processor E3940 @ 1.60GHz	Intel® N200 @ 1.0 GHz	Intel(R) Celeron(R) 6305E @ 1.80GHz	Intel® Core™ i3-8100 CPU @ 3.60GHz
Hyper Threading	off	off	off	off
Turbo Setting	on	on	on	off
Memory	1 x 8 GB DDR3 1600MHz	1 x 8 GB LPDDR5 4800MHz	2 x 8 GB DDR4 3200MHz	4 x 8 GB DDR4 2400MHz
Operating System	Ubuntu* 20.04.6 LTS	Ubuntu* 20.04.6 LTS	Ubuntu 20.04.6 LTS	Ubuntu* 20.04.6 LTS
Kernel version	5.4.0-42-generic	5.15.0-72-generic	5.15.0-71-generic	5.4.0-42-generic
BIOS Vendor	American Megatrends Inc.	Intel Corporation	Intel Corporation	American Megatrends Inc.
BIOS Version	5.12	ADLNFW11.R00.3301.A01.2208031342	TGLIFUI1.R00.4391.A03.2201140438	F10
BIOS Release	9/6/2017	8/3/2022	1/14/2022	11/5/2021
Batch size	1	1	1	1
Precision	INT8/FP32	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	4	4	2	4
Test Date	5/25/2023	5/25/2023	5/25/2023	5/25/2023
Power dissipation/socket, TDP in Watt	9.5	6	15	65
CPU Price on 05/22/2022, Prices may vary	\$34	\$193	\$107	\$117

CPU Inference Engines:	Core i5-8500	Core i7-8700T	Core i5-10500TE	Core i9-10900TE
Motherboard	ASUSTeK COMPUTER INC. / PRIME Z370-A	ASUSTek Computer Inc Prime Z370-A	Gigabyte Technology Co., Ltd. / Z490 AORUS PRO AX	iEi / B595
CPU	Intel® Core™ i5-8500 CPU @ 3.00GHz	Intel® Core™ i7-8700T CPU @ 2.40GHz	Intel® Core™ i5-10500TE CPU @ 2.30GHz	Intel® Core™ i9-10900TE CPU @ 1.80GHz
Hyper Threading	off	on	on	on
Turbo Setting	off	on	on	on
Memory	2 x 16 GB DDR4 2666MHz	4 x 16 GB DDR4 2400MHz	2 x 16 GB DDR4 @ 2666 MHz	2 x 8 GB DDR4 @ 2400 MHz
Operating System	Ubuntu* 20.04.6 LTS	Ubuntu* 20.04.6 LTS	Ubuntu* 20.04.5 LTS	Ubuntu* 20.04.6 LTS
Kernel version	5.4.0-42-generic	5.4.0-42-generic	5.15.0-71-generic	5.4.0-43-generic
BIOS Vendor	American Megatrends Inc.	American Megatrends Inc.	American Megatrends Inc.	American Megatrends Inc.
BIOS Version	3004	2401	F21	Z667AR10
BIOS Release	7/12/2021	7/12/2019	11/23/2021	7/15/2020
Batch size	1	1	1	1
Precision	INT8/FP32	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	6	6	6	10
Test Date	5/25/2023	5/25/2023	5/25/2023	5/25/2023
Power dissipation/socket, TDP in Watt	65	35	35	35
CPU Price on 05/22/2022, Prices may vary	\$192	\$303	\$214	\$488

CPU Inference Engines:	TGL-UP3	TGL-UP3	Core i9-12900HK	Core i9-12900TE
Motherboard	iEi B622	Tiger Lake U DDR4 RVP	Intel Corporation ADL-P CRB	iEi Corporation baseboard Z667
CPU	11th Gen Intel(R) Core(TM) i7-1185GRE @ 2.80GHz	11th Gen Intel(R) Core(TM) i7-1185G7 @ 2.80GHz	Intel® Core™ i9-12900HK CPU @ 2.5 GHz	Intel® Core™ i9-10900TE CPU @ 1.80GHz
Hyper Threading	on	on	on	on
Turbo Setting	on	on	on	on
Memory	2 x 16 GB DDR4 3200MHz	2 x 8 GB DDR4 3200MHz	2 x 8 GB DDR5 4800MHz	2 x 16 GB DDR4 2400MHz
Operating System	Ubuntu* 20.04.6 LTS	Ubuntu* 20.04.5 LTS	Ubuntu 22.04.2 LTS	Ubuntu* 20.04.5 LTS
Kernel version	5.15.0-71-generic	5.4.0-136-generic	5.15.0-72-generic	5.4.0-42-generic
BIOS Vendor	AMI	Intel Corporation	Intel Corporation	AMI
BIOS Version	B622AR02	TGLSFWI1.R00.4391.A00.2109201819	ADLPFWI1.R00.2411.A02.2110081023	Z667AR10
BIOS Release	9/29/2021	9/20/2021	10/8/2021	7/15/2020
Batch size	1	1	1	1
Precision	INT8/FP32	INT8/FP32	INT8/FP32	INT8/FP32
Number of concurrent inference requests	4	4	14	10
Test Date	5/25/2023	5/25/2023	5/25/2023	5/25/2023
Power dissipation/socket, TDP in Watt	28	28	45	35
CPU Price on 05/22/2022, Prices may vary	\$490	\$426	\$697	\$544

CPU Inference Engines:	Core i5-13600K	Core i9-13900K
Motherboard	Intel Corporation NUC13SBBi5 / M89887-303	Intel Corporation Alder Lake Client Platform
CPU	Intel® Core™ i5-13600K CPU @ 3.5 GHz	Intel® Core™ i9-13900K CPU @ 3.0GHz
Hyper Threading	on	on
Turbo Setting	on	on
Memory	2 x 32 GB DDR5 4800MHz	2 x 32 GB DDR5 4800MHz
Operating System	Ubuntu* 22.04.6 LTS	Ubuntu* 22.04.6 LTS
Kernel version	5.15.0-67-generic	5.15.0-67-generic
BIOS Vendor	Intel Corporation	Intel Corporation
BIOS Version	SBRPL579.0053.2022.1125.0101	SBRPL579.0053.2022.1125.0101
BIOS Release	11/25/2022	11/25/2022
Batch size	1	1
Precision	INT8/FP32	INT8/FP32
Number of concurrent inference requests	14	24
Test Date	5/25/2023	5/25/2023
Power dissipation/socket, TDP in Watt	125	125
CPU Price on 05/22/2022, Prices may vary	\$329	\$599

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	5/25/2023
TDP	150 W
GPU Price on 12/20/2022, Prices may vary	\$1,925
Host Machine	Xeon® gold 6336Y
Motherboard	Intel corp Whitley
CPU	Intel® Xeon® Gold 6336Y CPU @ 2.40GHz
Hyper Threading	on
Turbo Setting	on
Memory	16 x 16 GB DDR4 3200MHz
Operating System	Ubuntu 22.04.6 LTS
Kernel version	5.14.0-1047-oem
BIOS Vendor	Intel Corporation
BIOS Version	SE5C6200.86B.0020.P41.2109300305
BIOS Release	9/30/2021