

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

OpenVINO™ Model Server Platform with Intel® Xeon® Platinum 8260M			OpenVINO™ Model Server Platform with Intel® Xeon® Gold 6238	
	Server Platform	Client Platform	Server Platform	Client Platform
Motherboard	Inspur YZMB-00882-104 NF5280M5	Intel® Server Board S2600WF H48104-872	Inspur, NF5280M5, MB: YZMB-00882-104	Inspur, NF5280M5, MB: YZMB-00882-104
Memory	Samsung 16 x 16GB @ 2666 MT/s DDR4	Hynix 16 x 16GB @ 2666 MT/s DDR4	Kingston 16 x 16GB @ 2666 MT/s DDR4	Kingston 16 x 16GB @ 2666 MT/s DDR4
CPU	Intel® Xeon® Platinum 8260M CPU @ 2.40GHz	Intel® Xeon® Gold 6252 CPU @ 2.10GHz	Intel(R) Xeon(R) Gold 6238M CPU @ 2.10GHz	Intel(R) Xeon(R) Gold 6238M CPU @ 2.10GHz
Selected CPU Flags	Hyper Threading, Turbo Boost, DL Boost	Hyper Threading, Turbo Boost, DL Boost	Hyper Threading, Turbo Boost, DL Boost	Hyper Threading, Turbo Boost, DL Boost
CPU Thermal Design Power	162 W	150 W	140W	140W
Operating System	Ubuntu 20.04.5 LTS	Ubuntu 20.04.4 LTS	Ubuntu 20.04.4 LTS	Ubuntu 20.04.4 LTS
Kernel Version	5.4.0-135-generic	5.4.0-107-generic	5.4.0-107-generic	5.4.0-107-generic
BIOS Vendor	American Megatrends Inc.	Intel® Corporation	American Megatrends Inc.	American Megatrends Inc.
BIOS Version & Release	4.1.16, date: 06/23/2020	SE5C620.86B.02.01, date: 03/26/2020	4.1.16, 06/23/2020	4.1.16, 06/23/2020
Docker Version	20.10.3	20.10.3	20.10.3	20.10.3
Network Speed	40 Gb/s		40 Gb/s	

OpenVINO™ Model Server Platform with Intel® Core™ i9-11900K			OpenVINO™ Model Server Platform with Intel® Core™ i7-11700K	
	Server Platform	Client Platform	Server Platform	Client Platform
Motherboard	Wortman AG, Gigabyte Technology Z590M	ASUSTeK COMPUTER INC. PRIME Z590-P	ASUSTeK COMPUTER INC. PRIME Z590-P	Wortman AG, Gigabyte Technology Z590M
Memory	Samsung 4 x 32GB @ 3200 MT/s DDR4	Kingston 2 x 32GB @ 2400 MT/s DDR4	Kingston 2 x 32GB @ 2400 MT/s DDR4	Samsung 4 x 32GB @ 3200 MT/s DDR4
CPU	Intel® Core™ i9-11900K CPU @ 3.50GHz	Intel® Core™ i7-11700K CPU @ 3.60GHz	Intel® Core™ i7-11700K CPU @ 3.60GHz	Intel® Core™ i9-11900K CPU @ 3.50GHz
Selected CPU Flags	Hyper Threading, Turbo Boost, DL Boost	Hyper Threading, Turbo Boost	Hyper Threading, Turbo Boost	Hyper Threading, Turbo Boost, DL Boost
CPU Thermal Design Power	125 W	125W	125 W	125 W
Operating System	Ubuntu 20.04.6 LTS	Ubuntu 20.04.6 LTS	Ubuntu 20.04.6 LTS	Ubuntu 20.04.6 LTS
Kernel Version	5.15.0-47+prerelease4056	5.15.0-46-generic	5.15.0-46-generic	5.15.0-47+prerelease4056
BIOS Vendor	American Megatrends Inc.	American Megatrends Inc.	American Megatrends Inc.	American Megatrends Inc.
BIOS Version and Release Date	F7C, date: 08/04/2022	1017, date: 07/12/2021	1017, date: 07/12/2021	F7C, date: 08/04/2022
Docker Version	19.03.13	19.03.14	19.03.14	19.03.13
Network Speed	10 Gb/s		10 Gb/s	

OpenVINO™ Model Server Platform with Intel® Core™ i5-8500K			OpenVINO™ Model Server Platform with Intel® Core™ i3-10100K	
	Server Platform	Client Platform	Server Platform	Client Platform
Motherboard	ASUSTeK COMPUTER INC. PRIME Z370-A	ASUSTeK COMPUTER INC. PRIME X299-A II	ASUSTeK COMPUTER INC. PRIME Z590-P	ASUSTeK COMPUTER INC. PRIME X299-A II
Memory	Corsair 4 x 16GB @ 2133 MT/s DDR4	Kingston 2 x 32GB @ 2666 MT/s DDR4	Kingston 2 x 32GB @ 2400 MT/s DDR4	Kingston 2 x 32GB @ 2666 MT/s DDR4
CPU	Intel® Core™ i5-8500 CPU @ 3.00GHz	Intel® Core™ i9-10920X CPU @ 3.50GHz	Intel® Core™ i3-10100 CPU @ 3.60GHz	Intel® Core™ i9-10920X CPU @ 3.50GHz
Selected CPU Flags	Hyper Threading, Turbo Boost	Hyper Threading, Turbo Boost, DL Boost	-	Hyper Threading, Turbo Boost, DL Boost
CPU Thermal Design Power	65W	165 W	65 W	165 W
Operating System	Ubuntu 20.04.6 LTS	Ubuntu 20.04.4 LTS	Ubuntu 20.04.5 LTS	Ubuntu 20.04.6 LTS
Kernel Version	5.4.0-150-generic	5.4.0-107-generic	5.4.0-144-generic	5.4.0-107-generic
BIOS Vendor	American Megatrends Inc.	American Megatrends Inc.	American Megatrends Inc.	American Megatrends Inc.
BIOS Version and Release Date	3004, date: 07/12/2021	0702, date: 06/10/2020	0407, date: 01/14/2021	0702, date: 06/10/2020
Docker Version	19.03.14	19.03.13	20.10.0	19.03.13
Network Speed	40 Gb/s		10 Gb/s	