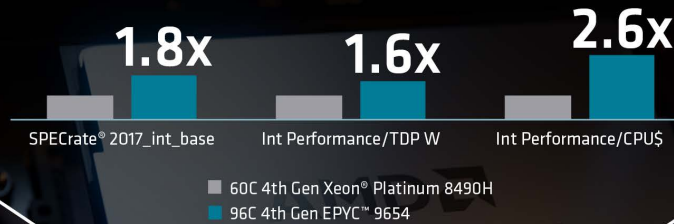


Density Leadership

PERFORMANCE LEADERSHIP

96C EPYC™ CPUs delivers best integer throughput



PPW/\$ Leadership



CHECK YOUR RECEIPTS

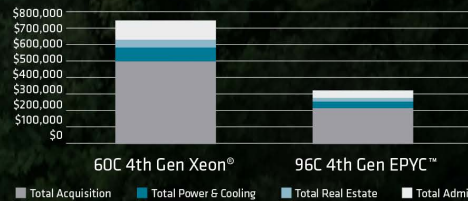
Xeon® Platinum 8480+	EPYC™ 9654
includes: 56-cores 2.0-3.8GHz 8-channel DDR5 105 MB L3 80 lanes PCIe® 5 350W TDP	includes: 64-cores 3.1-3.75GHz 12-channel DDR5 256 MB L3 128 lanes PCIe® 5 360W (320-400W cTDP)
\$10,710	\$9,087
You'll pay extra for: 512GB SGX S/W enablement required Accelerators (DSA, QAT, DLB, IAA)	Also Includes: AMD Infinity Guard SEV-SNP NO S/W enablement required CXL 1.x+ memory expansion Simpler SKU choices 9654P 1P option (\$7,104)

4TH GEN CPUS
COMPETITIVE BATTLECARD

EPYC CPUs offer outstanding value on ALL SKUs

EPYC CPUs help enterprises achieve their sustainability goals

EPYC CPUs ~54% lower 3-year TCO
10,000 total integer score



~43 acres
of US forest equivalent carbon sequestration annually

TCO/ENERGY EFFICIENCY LEADERSHIP

NO COMPROMISE OPTIONS

ENERGY EFFICIENCY LEADERSHIP



For more details, scan or click QR code.



Key Points

- 4th Gen AMD EPYC™ CPUs deliver overall performance / per-core leadership with high all-core boost speeds³
- Configurable TDPs can save up to ~20% CPU power with only est. ~6% performance impact⁴
- 1P EPYC CPU no-compromise options can replace 2x Xeon CPUs⁵

4th Gen AMD EPYC Family of Processors (9004 Series)													
AMD EPYC™ CPU Model	# of CPU Cores	# of Threads	Base Clock (GHz)	Max. Boost (GHz) ^{1,2}	All Core Boost Speed (GHz)	L3 Cache (MB)	1kU Pricing (USD\$)	Socket Count	Default TDP (W)	SPECrate [®] 2017 _int_base score	Configurable TDP (cTDP)	Product ID Tray	EPYC CPU URL
9654P	96	192	2.4	3.7	3.6	384	\$10,625	1	360	835	320-400W	100-000000803	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38563.html
9654	96	192	2.4	3.7	3.6	384	\$11,805	2	360	1790	320-400W	100-000000789	http://spec.org/cpu2017/results/res2023q1/cpu2017-20221024-32607.html
9634	84	168	2.1	3.7	3.1	384	\$10,304	2	290	1410	240-300W	100-000000797	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38539.html
9554P	64	128	3.1	3.8	3.8	256	\$7,104	1	400	654	320-400W	100-000000804	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38552.html
9554	64	128	3.1	3.8	3.8	256	\$9,087	2	400	1310	320-400W	100-000000790	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38523.html
9534	64	128	2.4	3.7	3.6	256	\$8,803	2	280	1250	240-300W	100-000000799	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38519.html
9474F	48	96	3.6	4.1	4.0	256	\$6,780	2	360	1110	320-400W	100-000000788	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230213-34234.html
9454P	48	96	2.4	3.7	3.7	256	\$4,598	1	290	512	240-300W	100-000000873	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230130-38766.html
9454	48	96	2.4	3.7	3.7	256	\$5,225	2	290	1040	240-300W	100-000000478	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230213-34230.html
9374F	32	64	3.9	4.3	4.1	256	\$4,850	2	320	817	320-400W	100-000000792	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230130-38901.html
9354P	32	64	3.3	3.8	3.8	256	\$2,730	1	260	371	240-300W	100-000000805	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38339.html
9354	32	64	3.3	3.8	3.8	256	\$3,420	2	280	742	240-300W	100-000000798	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230102-33286.html
9334	32	64	2.7	3.9	3.9	128	\$2,990	2	210	725	200-240W	100-000000800	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230102-33282.html
9274F	24	48	3.6	4.0	4.1	256	\$3,060	2	320	631	320-400W	100-000000794	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230213-34242.html
9254	24	48	2.5	3.7	3.9	128	\$2,299	2	200	588	200-240W	100-000000480	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38531.html
9224	24	48	2.5	3.7	3.7	64	\$1,825	2	200	511	200-240W	100-000000939	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230130-38887.html
9174F	16	32	4.1	4.4	4.2	256	\$3,850	2	400	443	320-400W	100-000000796	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230130-38953.html
9124	16	32	3.0	3.7	3.6	64	\$1,083	2	200	355	200-240W	100-000000802	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230213-34221.html

Competitive Comparisons to 2S Performance / Mainline General Purpose 4th Gen Intel® Xeon® Scalable Processors																	
Intel® Xeon® Scalable Model	# of CPU Cores	# of Threads	Base Clock (GHz)	Max. Boost (GHz) ^{1,2}	All Core Boost Speed (GHz)	L3 Cache (MB)	1kU Pricing (USD\$)	Socket Count	Default TDP (W)	SPECrate [®] 2017 _int_base score	vs. 2P AMD EPYC CPU	Performance	Performance / TDP W	Alt. 1P / 2P EPYC CPU	Performance	Performance / TDP W	Xeon CPU URL
Platinum 8480+	56	112	2.0	3.8	3.0	105	\$10,710	2	350	969	9454	1.07x	1.30x	9534	1.29x	1.61x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38451.html
Platinum 8470	52	104	2.0	3.8	3.0	105	\$9,359	2	350	866	7763	0.99x	1.24x	9454	1.20x	1.45x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20221223-33206.html
Platinum 8468	48	96	2.1	3.8	3.1	105	\$7,214	2	350	837	7763	1.03x	1.29x	9454	1.24x	1.50x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38893.html
Platinum 8460Y+	40	80	2.0	3.7	2.8	105	\$5,558	2	300	672	7643	1.02x	1.36x	7643	1.02x	1.36x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38893.html
Platinum 8462Y+	32	64	2.8	4.1	3.6	105	\$5,945	2	300	640	9334	1.13x	1.62x	9354	1.16x	1.24x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230213-34216.html
Gold 6448Y	32	64	2.1	4.1	3.0	60	\$3,583	2	225	564	75F3	1.06x	0.85x	9554P	1.16x	1.30x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230131-38960.html
Gold 6442Y	24	48	2.6	4.0	3.3	60	\$2,878	2	225	475	9224	1.08x	1.21x	9274F	1.33x	0.93x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38906.html
Gold 6444Y	16	32	3.6	4.1	4.0	45	\$3,622	2	270	372	9174F	1.19x	0.80x	1P 9374F	1.10x	1.85x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38906.html
Gold 6426Y	16	32	2.5	4.1	3.3	37.5	\$1,517	2	185	323	7343	1.02x	1.00x	9124	1.10x	1.02x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230213-38210.html
Gold 6434	8	16	3.7	4.1	4.1	22.5	\$2,607	2	195	192	72F3	1.01x	1.09x	1P 9174F	1.15x	1.12x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230213-34298.html
Gold 5415+	8	16	2.9	4.1	3.6	22.5	\$1,066	2	150	172	72F3	1.12x	0.94x	9124	1.03x	1.55x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38576.html
Platinum 8452Y	36	72	2.0	3.2	2.8	67.5	\$3,995	2	300	603	75F3	0.99x	1.06x	9334	1.20x	1.72x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38576.html
Gold 6438Y+	32	64	2.0	4.0	2.8	60	\$3,141	2	205	553	7543	1.03x	0.93x	7543	1.03x	0.93x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20221223-33192.html
Gold 6430	32	64	2.1	3.4	2.6	60	\$2,128	2	270	509	7513	1.06x	1.43x	7543	1.11x	1.34x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38513.html
Gold 5420+	28	56	2.0	4.1	2.7	52.5	\$1,848	2	205	460	7513	1.17x	1.20x	7443	0.99x	1.01x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38513.html
Gold 5418Y	24	48	2.0	3.8	2.8	45	\$1,483	2	185	410	7413	1.07x	1.10x	9454P	1.25x	1.59x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230130-38921.html
Silver 4416+	20	40	2.0	3.9	2.9	37.5	\$1,176	2	165	349	7413	1.25x	1.15x	9354P	1.06x	1.35x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38576.html
Silver 4410Y	12	24	2.0	3.9	2.8	30	\$563	2	150	210	7282	1.04x	1.30x	7443P	1.04x	1.56x	http://spec.org/cpu2017/results/res2023q1/cpu2017-20230116-38566.html

As of 2/1/2023. Some results may vary. Click score for reference URL. For endnotes scan or click QR code.



1. EPYC-018: Max boost for AMD EPYC processors is the maximum frequency achievable by any single core on the processor under normal operating conditions for server systems. EPYC-21: All-core boost for AMD EPYC™ processors is the average frequency of all processor cores running in performance mode while utilizing a low activity workload. Actual achievable all-core boost will vary based on hardware, software, workloads and other conditions.