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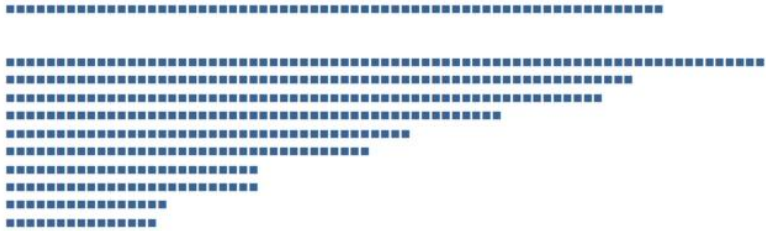


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CPU Performance

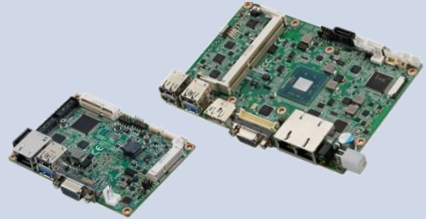



# CPU Performance

## CPU Performance Overview for x86 Processor



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# EMBEDDED

Embedded Boards	Industrial Mainboards	Embedded Systems	Accessories & IoT
 <p>2,5" Pico-ITX™ 3,5" Single Board Computer PC/104 Slot SBC Computer-on-Module</p>	 <p>Mini-ITX™ Micro-ATX Flex-ATX ATX</p>	 <p>Embedded Box PCs Embedded Panel PCs Embedded Server Embedded Desktop PCs Digital Signage Player Industrial Monitors</p>	 <p>Gateways Switches Router Memory, CPUs Cables Power Supplies</p>

## Available Features & Options:

Designed for Industrial Applications  
Extended Temperature -40°C...+85°C  
Design-in Support  
Kits (Board with OS, Display & Cables)

Long-term Availability  
Custom Design  
Fixed Bill of Material  
EOL / PCN Handling

# CPU PERFORMANCE

Processor:	Cores	Threads	Processor Base Frequency	Boost Frequency	Socket	Lithography	Cache	CPU TDP	CPU SDP	TDP up	TDP down	Launch Date	Embedded Option:	Average CPU Mark	Source: 14.07.2020 <a href="https://www.cpubenchmark.net/">https://www.cpubenchmark.net/</a>
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## Intel® Atom™ Family (Atom™, Pentium®, Celeron®)

### Intel® Gemini Lake

Intel® Pentium® J5005 (4x1.5GHz, up to 2.8GHz)	4	4	1.5GHz	2.8 GHz	FCBGA1090	14nm	5MB	10W				Q4'17	N	3200	████████████████████
Intel® Celeron® J4005 (2x2.0GHz, up to 2.7GHz)	2	2	2.0GHz	2.7 GHz	FCBGA1090	14nm	4MB	10W				Q4'17	N	1645	██████████

### Intel® Apollo Lake (5th Gen.)

Intel® Pentium® N4200 (4x1.1GHz, up to 2.5GHz)	4	4	1.10GHz	2.50 GHz	FCBGA1296	14nm	2 MB L2	6W	4W			Q3'16	x	2101	██████████████
Intel® Celeron® J3455 (2x1.5GHz, up to 2.3GHz)	4	4	1.5GHz	2.30 GHz	FCBGA1296	14nm	2 MB L2	10W				Q3'16	x	2236	██████████████
Intel® Celeron® N3350 (2x1.1GHz, up to 2.4GHz)	2	2	1.10GHz	2.40 GHz	FCBGA1296	14nm	2 MB L2	6W	4W			Q3'16	x	1120	██████
Intel® Atom™ x7-E3950 (4x1.6GHz, up to 2.0GHz)	4	4	1.60GHz	2.00 GHz	FCBGA1296	14nm	2 MB L2	12W				Q4'16	x	2102	██████████████
Intel® Atom™ x5-E3940 (4x1.6GHz, up to 1.8GHz)	4	4	1.60GHz	1.80 GHz	FCBGA1296	14nm	2 MB L2	9,5W				Q4'16	x	1916	██████████████
Intel® Atom™ x5-E3930 (2x1.3GHz, up to 1.8GHz)	2	2	1.30GHz	1.80 GHz	FCBGA1296	14nm	2 MB L2	6,5W				Q4'16	x	1101	██████

### Intel® Braswell

Intel® Pentium N3710 (4x1.6GHz, up to 2.56GHz)	4	4	1.6GHz	2.56 GHz	FCBGA1170	14nm	2 MB L2	6W	4W			Q1'16	x	1373	██████
Intel® Pentium N3700 (4x 1.6GHz, up to 2.4 GHz)	4	4	1.6GHz	2.4 GHz	FCBGA1170	14nm	2 MB L2	6W	4W			Q1'15	N	1325	████████
Intel® Celeron® N3160 (4x1.6GHz, up to 2.24GHz)	4	4	1.6GHz	2.24 GHz	FCBGA1170	14nm	2 MB L2	6W	4W			Q1'16	x	1167	████████
Intel® Celeron® N3150 (4x1.6 GHz, up to 2.08GHz)	4	4	1.6GHz	2,08 GHz	FCBGA1170	14nm	2 MB L2	6W	4W			Q1'15	N	1190	████████
Intel® Celeron® N3000 (2x 1.04GHz, up to 2.08GHz)	2	2	1.04GHz	2.08 GHz	FCBGA1170	14nm	2 MB L2	4W	3W			Q1'15	N	639	████
Intel® Celeron® N3050 (2x 1.6GHz, up to 2.16GHz)	2	2	1.6GHz	2.16 GHz	FCBGA1170	14nm	2 MB L2	6W	4W			Q1'15	N	581	███
Intel® Celeron® N3060 (2x1.6GHz, up to 2.48 GHz)	2	2	1.6GHz	2.48 GHz	FCBGA1170	14nm	2 MB L2	6W	4W			Q1'16	x	672	████
Intel® Celeron® N3010 (2x 1.04GHz, up to 2.24GHz)	2	2	1.04GHz	2.24 GHz	FCBGA1171	14nm	2MB L2	4W	3W			Q1'16	N	579	███
Intel® Atom™ x5-E8000 (4x1.04GHz)	4	4	1.04GHz		FCBGA1170	14nm	2 MB	5W				Q1'16	x	1075	██████

### Intel® Bay Trail (3rd Gen.)

Intel® Celeron® J1900 (4x2.0GHz, up to 2.42GHz)	4	4	2.0GHz	2.42 GHz	FCBGA1170	22nm	2 MB L2	10W				Q4'13	x	1130	██████
Intel® Celeron® N2930 (4x1.83GHz, up to 2.16GHz)	4	4	1.83GHz	2.16 GHz	FCBGA1170	22nm	2 MB	7,5W	4,5W			Q1'14	x	1011	████████
Intel® Celeron® N2920 (4x1.86GHz, up to 2.0GHz)	4	4	1.86GHz	2.0 GHz	FCBGA1170	22nm	2 MB	7,5W	4,5W			Q4'13	x	995	██████
Intel® Celeron® N2807 (2x1.58GHz, up to 2.16GHz)	2	2	1.58GHz	2.16 GHz	FCBGA1170	22nm	1 MB	4,3W	2,5W			Q1'14	x	470	███
Intel® Atom™ E3845 (4x1.91GHz)	4	4	1.91GHz		FCBGA1170	22nm	2 MB L2	10W				Q4'13	x	993	██████
Intel® Atom™ E3827 (2x1.75GHz)	2	2	1.75GHz		FCBGA1170	22nm	1 MB L2	8W				Q4'13	x	534	████
Intel® Atom™ E3826 (2x1.46GHz)	2	2	1.46GHz		FCBGA1170	22nm	1 MB L2	7W				Q4'13	x	323	███
Intel® Atom™ E3825 (2x1.33GHz)	2	2	1.33GHz		FCBGA1170	22nm	1 MB L2	6W				Q4'13	x	399	███
Intel® Atom™ E3815 (1x1.46GHz)	1	1	1.46GHz		FCBGA1170	22nm	512KB L2	5W				Q4'13	x	109	███

# CPU PERFORMANCE

Processor:	Cores	Threads	Processor Base Frequency	Burst Frequency	Socket	Lithography	Cache	CPU TDP	CPU SDP	TDP up	TDP down	Launch Date	Embedded Option	Average CPU Mark	
<b>Intel® Atom™ Family (Atom™, Pentium®, Celeron®)</b>															
<b>Intel® Cedarview</b>															
Intel® Atom™ D2550 (2x1.86GHz)	2	4	1.86GHz		FCBGA559	32nm	1 MB L2	10W				Q1'12	x	737	■■■
Intel® Atom™ N2600 (2x1.6GHz)	2	3	1.6GHz		FCBGA559	32nm	1 MB L2	3,5W				Q4'11	x	531	■■
Intel® Atom™ N2800 (2x1.86GHz)	2	4	1.86GHz		FCBGA559	32nm	1 MB L2	6,5W				Q4'11	x	633	■■■
<b>Intel® Pineview</b>															
Intel® Atom™ N455 (1x1.66GHz)	1	2	1.66GHz		FCBGA559	45nm	512KB L2	6,5W				Q2'10	x	277	■
Intel® Atom™ D525 (2x1.8GHz)	2	4	1.8GHz		FCBGA559	45nm	1 MB L2	13W				Q2'10	x	571	■■
Intel® Atom™ N450 (1x1.66GHz)	1	2	1.66GHz		FCBGA559	45nm	512KB L2	5,5W				Q1'10	x	303	■
Intel® Atom™ D510 (2x1.8GHz)	2	4	1.66GHz		FCBGA559	45nm	1 MB L2	13W				Q1'10	x	658	■■■
<b>Intel® Tunnel Creek</b>															
Intel® Atom™ E640 (1x1.0GHz)	1	2	1.0GHz		FCBGA676	45nm	512KB L2	3,6W				Q3'10	x		
Intel® Atom™ E680 (1x1.6 GHz)	1	2	1.6GHz		FCBGA676	45nm	512KB L2	4,5W				Q3'10	x	346	■
<b>Intel® Silberthome</b>															
Intel® Atom™ Z530 (1x1.6GHz)	1	1	1.6GHz		PBGA441	45nm	512KB L2	2W				Q2'08	x	281	■
Intel® Atom™ Z520 (1x1.33GHz)	1	1	1.33GHz		PBGA441	45nm	512KB L2	2W				Q2'08	x	240	■
Intel® Atom™ Z510 (1x1.1GHz)	1	1	1.1GHz		PBGA441	45nm	512KB L2	2W				Q2'08	x	195	
<b>Intel® Diamondville</b>															
Intel® Atom™ N270	1	1	1.60GHz		PBGA437	45nm	512 KB L2	2,5W				Q2'08	x	269	■

Source: 14.07.2020

<https://www.cpubenchmark.net/>

\*All information is without guarantee of correctness and completeness

# CPU PERFORMANCE

Processor:	Cores	Threads	Processor Base Frequency	Burst Frequency	Socket	Lithography	Cache	CPU TDP	CPU SDP	TDP up	TDP down	Launch Date	Embedded Option	Average CPU Mark	
<b>Coffee Lake (9th Gen.)</b>															
Intel® Core™ i7-9700E	8	8	2.6GHz	4.4 GHz	FCLGA1151	14nm	12MB	65W				Q2'19	x		
Intel® Core™ i7-9700TE	8	8	1.8GHz	3.8 GHz	FCLGA1151	14nm	12MB	35W				Q2'19	x	10675	
Intel® Core™ i5-9500E	6	6	3.0GHz	4.2 GHz	FCLGA1151	14nm	9MB	65W				Q2'19	x		
Intel® Core™ i5-9500TE	6	6	2.2GHz	3.6 GHz	FCLGA1151	14nm	9MB	35W				Q2'19	x	9212	
Intel® Core™ i3-9100E	4	4	3.1GHz	3.7 GHz	FCLGA1151	14nm	6MB	65W				Q2'19	x		
Intel® Core™ i3-9100TE	4	4	2.2GHz	3.2 GHz	FCLGA1151	14nm	6MB	35W				Q2'19	x		
<b>Coffee Lake (8th Gen.)</b>															
Intel® Core™ i7-8850H (6x2.6GHz, up to 4.4GHz)	6	12	2.6GHz	4.3 GHz	FCBGA1440	14nm	9MB	45W		35W		Q2'18	x	10580	
<b>Coffee Lake (8th Gen.)</b>															
Intel® Core™ i7-8700 (6x3.2GHz, up to 4.6GHz)	6	12	3.2GHz	4.6 GHz	FCLGA1151	14nm	12MB	65W				Q4'17	x	13099	
Intel® Core™ i7-8700T (6x2.4GHz, up to 4.0GHz)	6	12	2.4GHz	4.0 GHz	FCLGA1151	14nm	12MB	35W		25W		Q2'18	x	10884	
Intel® Core™ i5-8500 (6x2.1GHz, up to 4.6GHz)	6	6	2.1GHz	3.5 GHz	FCLGA1151	14nm	9MB	35W		25W		Q2'18	x	9481	
Intel® Core™ i5-8500T (6x2.1GHz, up to 3.5GHz)	6	6	2.1GHz	3.5 GHz	FCLGA1151	14nm	9MB	35W		25W		Q2'18	x	8042	
Intel® Core™ i3-8100	4	4	3.6GHz		FCLGA1151	14nm	6MB	65W				Q4'17	x	6195	
Intel® Core™ i3-8100T	4	4	3.1GHz		FCLGA1151	14nm	6MB	35W		25W		Q2'18	x	5389	
Intel® Pentium® G5400	2	4	3.7GHz		FCLGA1151	14nm	4MB	58W				Q2'18	x	3732	
Intel® Pentium® G5400T	2	4	3.1GHz		FCLGA1151	14nm	4MB	35W		25W		Q2'18	x	3530	
Intel® Celeron® G4900	2	2	2.9GHz		FCLGA1151	14nm	2MB	35W		25W		Q2'18	x	2402	
Intel® Celeron® G4900T	2	2	3.1GHz		FCLGA1151	14nm	2MB	54W				Q2'18	x	2311	
<b>Whiskey Lake (8th Gen.)</b>															
Intel® Core™ i7-8665UE (4x1.7GHz, up to 4.4GHz)	4	8	1.7GHz	4.4 GHz	FCBGA1528	14nm	8MB	15W		25W	12,5W	Q2'19	x	6626	
Intel® Core™ i5-8365UE (4x1.6GHz, up to 4.1GHz)	4	8	1.6GHz	4.1 GHz	FCBGA1528	14nm	6MB	15W		25W	12,5W	Q2'19	x	6079	
Intel® Core™ i3-8145UE (2x 2.2GHz, up to 3.9GHz)	2	4	2.2GHz	3.9 GHz	FCBGA1528	14nm	4MB	15W		25W	12,5W	Q2'19	x		
Intel® Celeron® 4305UE (2x 2.2GHz)	2	2	2.2GHz		FCBGA1528	14nm	2MB	15W			12,5W	Q2'19	N	1961	
Intel® Core i7-8565U (4x 1.8GHz, up to 4.6 GHz)	4	8	1.8GHz	4.6 GHz	FCBGA1528	14nm	8MB	15W		25W	10W	Q3'18	N	6595	
Intel® Core i5-8265U (4x 1.6GHz, up to 3.9GHz)	4	8	1.6GHz	3.9 GHz	FCBGA1528	14nm	6MB	15W		25W	10W	Q3'18	N	6289	
<b>Kaby Lake (7th Gen.)</b>															
Intel® Core™ i7-7600U (2x2.8GHz, up to 3.9GHz)	2	4	2.8GHz	3.9 GHz	FCBGA1356	14nm	4MB	15W		25W	7,5W	Q1'17	x	3609	
Intel® Core™ i5-7300U (2x 2.6GHz, up to 3.5GHz)	2	4	2.6GHz	3.5 GHz	FCBGA1356	14nm	3MB	15W		25W	7,5W	Q1'17	x	3781	
Intel® Core™ i3-7100U (2x 2.4GHz)	2	4	2.4GHz		FCBGA1356	14nm	3MB	15W		7,5W		Q3'16	x	2708	
Intel® Celeron® 3965U (2x 2.2GHz)	2	2	2.2GHz		FCBGA1356	14nm	2MB	15W		10W		Q1'17	x	1758	

Source: 14.07.2020

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# CPU PERFORMANCE

Processor:	Cores	Threads	Processor Base Frequency	Burst Frequency	Socket	Lithography	Cache	CPU TDP	CPU SDP	TDP up	TDP down	Launch Date	Embedded Option	Average CPU Mark
Source: 14.07.2020 <a href="https://www.cpubenchmark.net/">https://www.cpubenchmark.net/</a> <small>*All information is without guarantee of correctness and completeness</small>														
<b>Intel® Core™ i Familiy (Core™ i, Pentium®, Celeron®)</b>														
<b>Sky Lake (6th Gen)</b>														
Intel® Core™ i7-6600U (2x2.6GHz, up to 3.4GHz)	2	4	2.6GHz	3.4 GHz	FCBGA1356	14nm	4MB	15W		25W	7,5W	Q3'15	x	3563
Intel® Core™ i5-6300U (2x2.4GHz, up to 3.0GHz)	2	4	2.4GHz	3.0 GHz	FCBGA1356	14nm	3MB	15W		25W	7,5W	Q3'15	x	3274
Intel® Core™ i3-6100U (2x 2.3GHz)	2	4	2.3GHz		FCBGA1356	14nm	3MB	15W			7,5W	Q3'15	x	2610
Intel® Celeron® 3955U (2x2.0GHz)	2	2	2.0GHz		FCBGA1356	14nm	2MB	15W			10W	Q4'15	x	1588
Intel® Core™ i7-6700 (4x 3.4GHz, up to 4.0GHz)	4	8	3.4GHz	4.0 GHz	FCLGA1151	14nm	8MB	65W				Q3'15	x	8067
Intel® Core™ i3-6100 (2x 3.0 GHz)	2	4	3.7GHz		FCLGA1151	14nm	3MB	51W				Q3'15	x	4148
Intel® Core™ i5-6500 (4x3.2GHz, up to 3.6GHz)	4	4	3.2GHz	3.6GHz	FCLGA1151	14nm	6MB	65W				Q3'15	x	5634
Intel® Core™ i7-6820EQ (4x2.8GHz, up to 3.5GHz)	4	8	2.8GHz	3.5 GHz	FCBGA1440	14nm	8MB	45W				Q4'15	x	6827
Intel® Core™ i5-6440EQ (4x2.7GHz, up to 3.4GHz)	4	4	2.7GHz	3,4 GHz	FCBGA1440	14nm	6MB	45W				Q4'15	x	5432
Intel® Core™ i7-6822EQ (4x2.0GHz, up to 2.8GHz)	4	8	2.0GHz	2.8 GHz	FCBGA1440	14nm	8MB	25W				Q4'15	x	5304
Intel® Core™ i3-6100E (2x2.7GHz)	2	4	2.7GHz		FCBGA1440	14nm	3MB	35W				Q4'15	x	3355
<b>Broadwell (5th Gen.)</b>														
Intel® Core™ i7-5700EQ (4x2.6GHz, up to 3.4GHz)	4	8	2.6GHz	3.4 GHz	FCBGA1364	14nm	6MB	47W		37W		Q2/15	x	5732
Intel® Core™ i7-5850EQ (4x2.7GHz, up to 3,4GHz)	4	8	2.7GHz	3.4 GHz	FCBGA1364	14nm	6MB	47W		37W		Q2/15	x	6829
Intel® Core™ i7-5650U (2x2.2GHz, up to 3.1GHz)	2	4	2.2GHz	3.1 GHz	FCBGA1168	14nm	4MB	15W			9,5W	Q1/15	x	3008
Intel® Core™ i5-5350U (2x 1.8GHz, up to 2.9GHz)	2	4	1.8GHz	2.9 GHz	FCBGA1168	14nm	3MB	15W			9,5W	Q1/15	x	2663
Intel® Core™ i3-5010U (2x2.1GHz)	2	4	2.1GHz		FCBGA1168	14nm	3MB	15W			10W	Q1/15	x	2169
Intel® Celeron® 3765U (2x 1.9GHz)	2	2	1.9GHz		FCBGA1168	14nm	2MB	15W			10W	Q1/15	x	1288
<b>Haswell (4th Gen.)</b>														
Intel® Core™ i7-4650U (2x1.7GHz, up to 3.3GHz)	2	4	1.7GHz	3.3 GHz	FCBGA1168	22nm	4MB	15W				Q3/13	x	2238
Intel® Core™ i5-4300U (2x1.9GHz, up to 2.9GHz)	2	4	1.9GHz	2.9 GHz	FCBGA1168	22nm	3MB	15W				Q3/13	x	2534
Intel® Core™ i3-4010U (2x1.7GHz)	2	4	1.7GHz		FCBGA1168	22nm	3MB	15W				Q3/13	x	1682
Intel® Celeron® 2980U (2x1.6GHz)	2	2	1.6GHz		FCBGA1168	22nm	2MB	15W				Q3/13	x	1077
Intel® Core™ i7-4700EQ (4x3.4GHz, up to 3.4GHz)	4	8	2.4GHz	3.4GHz	FCBGA1364	22nm	6MB	47W				Q2/13	x	5004
Intel® Core™ i5-4422E (2x1.8GHz, up to 2.9GHz)	2	4	1.8GHz	2.9GHz	FCBGA1364	22nm	3MB	25W				Q2/14	x	1931
Intel® Core™ i5-4400E (2x 2.7GHz, up to 3.3GHz)	2	4	2.7GHz	3.3 GHz	FCBGA1364	22nm	3MB	37W				Q3/13	x	3293
Intel® Core™ i3-4100E (2x 2.4GHz)	2	4	2.4GHz		FCBGA1364	22nm	3MB	37W				Q3/13	x	





# CPU PERFORMANCE

Processor:	<u>Cores</u>	<u>Threads</u>	<u>Processor Base Frequency</u>	<u>Boost Frequency</u>	<u>Socket</u>	<u>Lithography</u>	<u>Cache</u>	<u>CPU TDP</u>	<u>CPU SDP</u>	<u>TDP up</u>	<u>TDP down</u>	<u>Launch Date</u>	<u>Embedded Option</u>	<u>Average CPU Mark</u>	
<b>AMD® Processor Family</b>															
<b>AMD Ryzen V1000</b>															
AMD® Ryzen™ Embedded V1807B	4	8	3.35 GHz	3.8 GHz	FP5 BGA	14nm	2MB	54W		35W			x	7764	
AMD® Ryzen™ Embedded V1756B	4	8	3.25 GHz	3.6 GHz	FP5 BGA	14nm	2MB	54W		35W			x	7627	
AMD® Ryzen™ Embedded V1605B	4	8	2.0 GHz	3.6 GHz	FP5 BGA	14nm	2MB	25W		12W			x	6841	
AMD® Ryzen™ Embedded V1202B	2	4	2.3 GHz	3.2 GHz	FP5 BGA	14nm	2MB	25W		12W			x	3625	
<b>AMD Ryzen R1000</b>															
AMD® Ryzen™ Embedded R1606G	2	4	2.6 GHz	3.5 GHz			1MB	25W		12W			x	4317	
AMD® Ryzen™ Embedded R1505G	2	4	2.4 GHz	3.3 GHz			1MB	25W		12W			x	4270	
<b>AMD® R-Series (2nd Gen.)</b>															
AMD® R-Series RX-425BB	4	6	2.5 GHz	3.4 GHz			4MB	35W					x		
AMD® R-Series RX-427BB	4	8	2.7 GHz	3.6 GHz			4MB	35W					x	2474	
AMD® R-Series RX-225FB	2	3	2.5 GHz	3.0 GHz			1MB	17W					x		
<b>AMD® G-Series (2nd Gen.)</b>															
AMD® G-Series GX-424CC	4		2.4 GHz				2MB	25W					x	1760	
AMD® G-Series GX-412HC	4		1.2 GHz				1MB	7W					x	940	
AMD® G-Series GX-415GA	4		2.0 GHz				2MB	15W					x	1324	
AMD® G-Series GX-420CA	4		2.0 GHz				2MB	25W					x	1549	
AMD® G-Series GX-210IA	2		1.0 GHz				1MB	6W					x	233	
<b>AMD® G-Series</b>															
AMD® G-Series T56N	2		1.65 GHz				512KB	18W			Q2/11	x		471	
AMD® G-Series T40N	2		1.0 GHz				512KB	9W			Q2/11	x			
AMD® G-Series T40E	2		1.0 GHz				512KB	6,4W			Q2/11	x		255	

Source: 14.07.2020  
<https://www.cpubenchmark.net/>  
\*All information is without guarantee of correctness and completeness

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