CPU-Vergleich

Igel 350c **Igel340C** **HP T520**

	AMD Ryzen Embedded R1505G	AMD GX-424CC SOC	AMD GX-212JC SOC
Price	Search Online	Search Online	Search Online
Socket Type	FP5	FT3b	FT3b
CPU Class	Laptop, Mobile/Embedded	Laptop	Laptop
Clockspeed	2.4 GHz	2.4 GHz	1.2 GHz
Turbo Speed	Up to 3.3 GHz	Not Supported	Not Supported
# of Physical Cores	2 (Threads: 4)	4 (Threads: 4)	2 (Threads: 2)
Cache	L1: 192KB, L2: 1.0MB, L3: 4MB	L1: 256KB, L2: 2.0MB,	L1: 128KB, L2: 2.0MB,
TDP	15W	25W	6W
Yearly Running Cost	$2.74	$4.56	$1.10
Other	with Radeon Vega Gfx	with Radeon R5E Graphics	Radeon R2E Graphics
First Seen on Chart	Q3 2019	Q3 2014	Q3 2014
# of Samples	58	65	14
CPU Value	0.0	0.0	0.0
Single Thread Rating (% diff. to max in group)	1837 *(0.0%)*	802 *(-56.4%)*	452 *(-75.4%)*
CPU Mark (% diff. to max in group)	**3813** *(0.0%)*	**1803** *(-52.7%)*	**646** *(-83.1%)*

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AMD Ryzen Embedded R1505G vs AMD GX-424CC

AMD GX-424CC bei Amazon Deutschland

Comparison of the technical characteristics between the processors, with the AMD Ryzen Embedded R1505G on one side and the AMD GX-424CC on the other side, also their respective performances with the benchmarks. The first is dedicated to the mini desktop sector, It has 2 cores, 4 threads, a maximum frequency of 3,3GHz. The second is used on the mini desktop segment, it has a total of 4 cores, 4 threads, its turbo frequency is set to 2,4 GHz. The following table also compares the lithography, the number of transistors (if indicated), the amount of cache memory, the maximum RAM memory capacity, the type of memory accepted, the release date, the maximum number of PCIe lanes, the values obtained in Geekbench and Cinebench.

Note: Commissions may be earned from the links above.

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Specification comparison:

Processor		**AMD Ryzen Embedded R1505G**				**AMD GX-424CC**		
Market (main)		Mini desktop				Mini desktop		

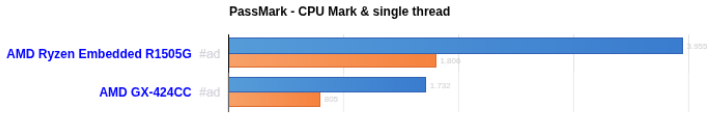
ISA		x86-64 (64 bit)				x86-64 (64 bit)		
Microarchitecture		Zen+				Puma		
Core name		Banded Kestrel				Steppe Eagle		
Family		Ryzen Embedded				AMD GX		
Part number(s), S-Spec		YE1505C4T2OFG				GE424CIXJ44JB		
Release date		Q2 2019				Q2 2014		
Lithography		14 nm				28 nm		
Cores		2				4		
Threads		4				4		
Base frequency		2,4 GHz				2,4 GHz		
Turbo frequency		3,3 GHz				-		
High performance cores		2 Cores 4 Threads @ 2,4 / 3,3 GHz				4 Cores 4 Threads @ 2,4 GHz		
Cache memory		4 MB				2 MB		
Max memory capacity		32 GB				8 GB		
Memory types		DDR4-2400				DDR3-1866		
Max # of memory channels		2				1		
Max PCIe lanes		8				6		
TDP		25 W				25 W		

GPU integrated graphics		AMD Radeon Vega 3 (Picasso)				AMD Radeon R5E		
GPU cores		3				2		
GPU shading units		192				128		
GPU base clock		300 MHz				497 MHz		
GPU boost clock		1000 MHz				497 MHz		
GPU FP32 floating point		384 GFLOPS				167,6 GFLOPS		
Socket(s)		FP5, BGA1140				FT3b, BGA769		
Compatible motherboard		Socket FP5 Motherboard ad.webp				-		
Maximum temperature		105°C				90°C		
Crypto engine		AES Instructions, Secure Memory Encryption				AES Instructions		
Security		Enhanced Virus Protection, Platform Secure Boot				Enhanced Virus Protection		
PassMark single thread		1.806				805		
PassMark CPU Mark		3.955				1.732		

(Windows) Geekbench 4 single core		3.390				1.379		
(Windows) Geekbench 4 multi-core		6.433				3.552		
(Windows) Geekbench 5 single core		724				284		
(Windows) Geekbench 5 multi-core		1.433				848		
(SGEMM) GFLOPS Performance		66 GFLOPS				26,8 GFLOPS		
(Multi-core / watt performance) Performance / watt ratio		257 pts / W				142 pts / W		

Performance comparison with the benchmarks:

Performance comparison between the two processors, for this we consider the results generated on benchmark software such as Geekbench.

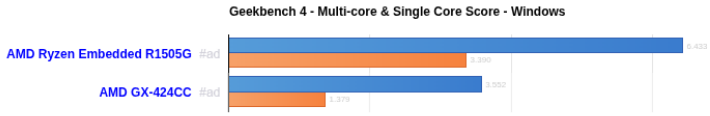


In single core, the difference is 124%. In multi-core, the differential gap is 128%.

Note: Commissions may be earned from the links above. These scores are only an average of the performances got with these processors, you may get different results.

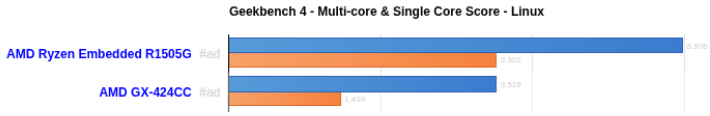
PassMark is a benchmarking software that performs several performance tests including prime numbers, integers, floating point, compression, physics, extended instructions, encoding, sorting. The higher the score is, the higher is the device capacity.

With Windows:



In single core, the difference is 146%. In multi-core, the differential gap is 81%.

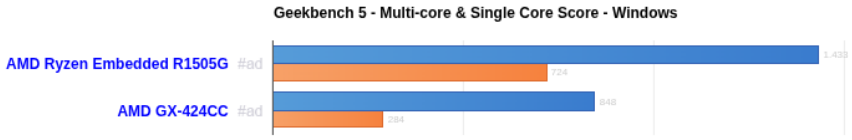
With Linux:



In single core, the difference is 145%. In multi-core, the differential gap is 70%.

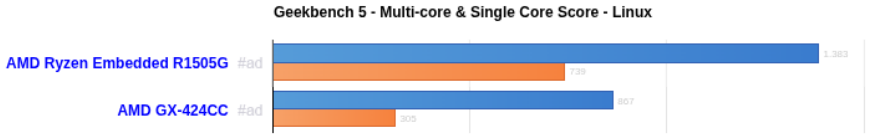
Note: Commissions may be earned from the links above. These scores are only an average of the performances got with these processors, you may get different results.

With Windows:



In single core, the difference is 155%. In multi-core, the differential gap is 69%.

With Linux:



In single core, the difference is 142%. In multi-core, the differential gap is 60%.

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