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Press release

Independent tests confirm the excellent performance of congatec’s 3.5-inch SBC

**congatec brings compute power loss-free to the industrial fields**

**San Diego, CA, 18 February 2019 \* \* \*** congatec – a leading supplier of high-performance embedded computing products – announced today that the new conga-JC370 3.5-inch SBC with 8th generation Intel® Core™ processors (code name Whiskey Lake) has received excellent design ratings in independent studies carried out by Elektor Magazine and also earned phenomenal positions in UserBenchmark speed tests.

Featuring the Intel® Core™ i5-8365UE, only 4 GB out of a possible 64 GB of RAM, and running Windows 10 Pro, the tested version of the new congatec 3.5-inch SBCs reached the 85th percentile in the overall UserBenchmark comparison. This means it came 15th out of 100, averaged over the results of thousands of other computers – including those with much more power-hungry processors. The key indicator for the excellent board design is the fact that the CPU itself obtained only a score of 73.1%. This confirms that the better overall score derives from excellent implementation, including all components such as chipset and external controllers.

“Everyone knows, even the greatest performance improvements of a processor can get lost if the final board design cannot render the compute power loss-free to the various industrial fields. So we are very proud that our new conga-JC370 3.5-inch SBCs proved their outstanding computing performance in these tests. Plus, the test results underline that congatec knows how to design best-in-class boards,” says Martin Danzer, Director Product Management at congatec.

The test further shows that the CPU also does very well with its TDP of 15 W when power consumption is taken into account. Consequently, the conga-JC370 was found to offer an extremely good power-per-watt ratio as well as excellent thermal behavior. When running a stress test on the SBC for almost an hour with an overall CPU utilization of 98.7%, no throttling was required for cooling down the CPU. This is important for all applications that depend on getting full performance at all times. Still, the overall power consumption remained below 15 W and the average temperature was as low as 39.2°C, with a maximum of only 61°C. One reason for these exceptional results, beside the processor’s microarchitecture, is the advanced and tailored cooling that congatec provides for the conga-JC370 3.5-inch SBC. Cooling solutions for the new 3.5‑inch SBC include a heat spreader, a passive design without moving parts for rugged applications as well as an active cooler for high-performance use cases. Application-ready cooling solutions are a huge benefit for all OEMs looking for an easy-to-use, application-ready platform off-the-shelf.

Further information on the new conga-JC370 3.5‑inch SBCs with 8th generation low-power Intel**®** Core™ i7, Intel**®** Core™ i5, Intel**®** Core™ i3 and Celeron**®** U-processors can be found at: <https://www.congatec.com/en/products/35-sbc/conga-jc370.html>

or download the White paper at: <https://www.congatec.com/en/technologies/compact-35-inch-boards-with-8th-generation-intel-core-mobile-processors.html>

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**About congatec**

congatec is a rapidly growing technology company focusing on embedded computing products. The high-performance computer modules are used in a wide range of applications and devices in industrial automation, medical technology, transportation, telecommunications and many other verticals. congatec is the global market leader in the computer-on-modules segment with an excellent customer base from start-ups to international blue chip companies. Founded in 2004 and headquartered in Deggendorf, Germany, the company reached sales of 133 million US dollars in 2018. More information is available on our website at [www.congatec.com](http://www.congatec.com) or via [LinkedIn](https://www.linkedin.com/company/455449), [Twitter](https://mobile.twitter.com/congatecAG) and [YouTube](http://www.youtube.com/congatecAE).

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