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*Text and photograph available at:* [*http://www.congatec.com/press*](http://www.congatec.com/press)

**Press release**

**New congatec quick starter set simplifies
evaluation of COM Express Type 7 server-on-modules**

**congatec lays foundation for modular micro server designs**

**Deggendorf, Germany, July 27, 2017 \* \* \*** congatec – a leading technology company for embedded computer modules, single board computers and embedded design and manufacturing services – launches the new COM Express Type 7 quick starter set as the fundamental basis for OEM’s modular micro server designs. The new quick starter set simplifies the evaluation of the first server-on-modules designed in accordance to PICMG’s COM Express Type 7 standard, poised to be globally deployed in cloud, edge, and fog server applications. Engineers further benefit from reduced validation efforts of their own carrier board layouts, as they can re-use the proposed best practice components and PCB design schematics for their own dedicated next-gen modular micro servers. congatec provides the schematics of the new carrier board (conga-X7/EVAL) to all registered quick starter set customers for free.

The congatec quick starter set is perfectly suited for the design of Industry 4.0 micro servers communicating in real-time, redundant fog servers, and transcoding cloudlets at the edge of carrier-grade infrastructures typically operating on a massive scale. It targets commercial temperature (0°C to 60°C) as well as extended temperature ranges (-40C to +85°C) for rooftop and public transportation installations and is universally applicable. With 4x 10 Gbit and 1x 1 Gbit Ethernet, 4x USB 3.0 and baseboard management controller providing VGA, iKVM and virtual storage the new congatec evaluation carrier board can instantly be utilized at any test designer’s standard workspace.

“Cloud, edge, and fog application markets are all brand new – and engineers need a trustworthy platform strategy to ensure fastest time to market for their challenging and usually time critical projects. By offering a quick starter set that is compiled out of our COM Express Type 7 modules, complementary cooling solutions, and our new evaluation carrier board conga-X7/EVAL, we provide everything engineers require for the computing cores of these servers. To support fast implementation, we never implemented automated service chats and anonymous telephone hotlines, recognizing that personal and competent support is ideal to make our customers successful. We can also help with dedicated Embedded Design & Manufacturing services for the embedded server designer,” explains Christian Eder, Director Marketing at congatec.

**The conga-X7/EVAL evaluation carrier board in detail**

The congatec conga-X7/EVAL evaluation carrier board for COM Express Type 7 server-on-modules features 4x 10 Gigabit Ethernet SFP+ interfaces, which can be equipped with optical (XFP) or copper transceivers, as well as a Gigabit Ethernet port. For server extensions, the board executes 32 PCI Express lanes via 1x PCIe x16, 1x PCIe x8 and 2x PCIe x4 slots. Further extensions include 4x USB 3.0/2.0 and a COM port. Its Intelligent Platform Management Interface (IPMI) features include an integrated board management controller, adding 1x VGA for local displays as well as iKVM to transport keyboard, video and mouse signals over LAN for remote management. For SSDs or HDDs, there are 2x SATA Gen3 interfaces and the already mentioned PCIe lanes which support NVMe for fast mass storage devices. Further features include 1x LPC header, 1x I2C bus, 1x SM bus, 1x 8 Bit GPIO and fan control. The power supply supports ATX PSUs as well as 12 VDC plain via banana jacks. For custom designs, congatec provides the PCB schematics and bill of materials to registered customers.

The new COM Express Type 7 quick starter set comprises a selection of standard products that engineers can bundle according to their specific demands. Typical quick starter sets for COM Express Type 7 integrate the conga-X7/EVAL carrier board plus its schematics, which are freely downloadable for registered customers. Also included in the set is one of the following COM Express Type 7 server-on-modules with accompanying cooling solution:

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| **Processor** |  | **Cores** |  | **Intel® Smart Cache [MB]** |  | **Clock/ Burst****[GHz]** |  | **TDP** **[W]** |  | **Temperature range** |
| **Intel® Xeon© D1577** |  | **16** |  | **24** |  | **1.3 / 2.1** |  | **45** |  | **0 to +60°C** |
| **Intel® Xeon© D1548** |  | **8** |  | **12** |  | **2.0 / 2.6** |  | **45** |  | **0 to +60°C** |
| **Intel® Xeon© D1527** |  | **4** |  | **6** |  | **2.2 / 2.7** |  | **35** |  | **0 to +60°C** |
| **Intel® Xeon© D1559** |  | **12** |  | **18** |  | **1.5 / 2.1** |  | **45** |  | **-40 to +85°C** |
| **Intel® Xeon© D1539** |  | **8** |  | **12** |  | **1.6 / 2.2** |  | **35** |  | **-40 to +85°C** |
| **Intel® Xeon© D1529** |  | **4** |  | **6** |  | **1.3** |  | **20** |  | **-40 to +85°C** |
| **Intel® Pentium© D1519** |  | **4** |  | **6** |  | **2.1 / 1.5** |  | **25** |  | **-40 to +85°C** |
| **Intel® Pentium© D1508** |  | **2** |  | **3** |  | **2.2 / 2.6** |  | **25** |  | **0 to +60°C** |
| **Intel® Pentium© D1509** |  | **2** |  | **3** |  | **1.5** |  | **19** |  | **0 to +60°C** |

For more information about congatec’s new quick starter set options for COM Express Type 7 server-on-modules, please call your sales contact or visit the product page <http://www.congatec.com/en/technologies/com-express/com-express-type-7.html>

**About congatec AG**Headquartered in Deggendorf, Germany, congatec AG is a leading supplier of industrial computer modules using the standard form factors COM Express, Qseven and SMARC as well as single board computers and EDM services. congatec’s products can be used in a variety of industries and applications, such as industrial automation, medical, entertainment, transportation, telecommunication, test & measurement and point-of-sale. Core knowledge and technical know-how includes unique extended BIOS features as well as comprehensive driver and board support packages. Following the design-in phase, customers are given support via extensive product lifecycle management. The company’s products are manufactured by specialist service providers in accordance with modern quality standards. Currently congatec has entities in USA, Taiwan, China, Japan and Australia as well as United Kingdom, France, and the Czech Republic. More information is available on our website at [www.congatec.com](http://www.congatec.com) or via [Facebook](http://www.facebook.com/Congatec), [Twitter](https://mobile.twitter.com/congatecAG) and [YouTube](http://www.youtube.com/congatecAE).

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