Kontron: COMe type 7 module for low-power entry-level server platforms

Kontron has introduced the new Kontron COM Express Computer-on-Module COMe-bDV7 in the basic type 7 form factor. It is based on the Intel Atom® processor C3000 product family offering scalable compute performance and network capabilities especially suitable for low-power entry-level server platforms.

This latest COM Express module extends Kontron's product family of server-class COM platforms. The COMe-bDV7 module features server-grade CPU performance with up to 16 cores. This robust performance is combined with support for up to four 10GbE-KR ports making it ideal for network intensive implementations. The KR design allows for maximum flexibility by defining the physical interface - KR for backplane connectivity, Copper (RJ45) or fibre (SFP+) on the base board. Furthermore, the available NC-SI signals allow for the connection of a Baseboard Management Controller (BMC) on the baseboard for the purpose of enabling out-of-band remote manageability. This enhances reliability and helps reduce the overall operating cost in general.

In addition, the COMe-bDV7 supports up to 64 GB of ECC and non-ECC DDR4 memory for a well-balanced multi-core CPU versus memory-size approach. Furthermore, the new COMe-bDV7 offers support for Kontron's Security Solution APPROTECT. It is based on an integrated security chip from Wibu-Systems which in tandem with a specifically developed software framework protects applications, as well as all data processed and stored on the device. Additionally, Kontron's APPROTECT Licensing enables new business models such as 'pay per use' or time-based trial versions, as it can be used to easily enable or disable features via a predetermined set of variables.

With the new module Kontron's customers will be able to take full advantage of Intel's latest Intel Atom processors for entry-level server platforms offering scalable compute performance from 2 to 16 cores with high bandwidth memory (ECC) and I/O capacity for low-power fanless systems.

Supporting up to four 10GbE Ethernet interfaces, the Kontron module is designed for applications such as real-time Industry 4.0 fog servers, micro servers, network appliances, as well as industrial, energy, robotics and IIoT implementations with demanding network requirements. The module supports Linux, Windows Server 2012 R2, 2016, Windows 7 and 10 and VxWorks.

The Kontron COMe-bDV7 is also available in industrial-grade versions making it an excellent solution for applications that operate in harsh environments. It is available immediately.

More Information... (https://www.kontron.com/products/boards-and-standard-form-factors /com-express/com-express-basic/come-bdv7.html)

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