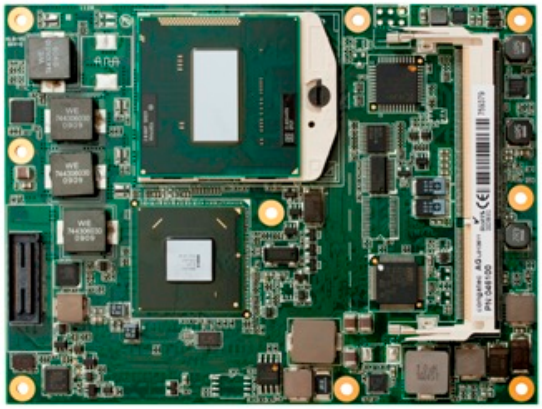
COM Express Type 6 Module Features Intel Quad-Core Processor



congatec has unveiled the conga-TM67, a new high-performance module for future designs. The Type 6 pin-out and digital display interfaces ensure improved display options and increased bandwidth with additional PCI Express Lanes available.

The new module features the second generation of Intel Core processors – including the Intel Core i7-2710QE processor (2.1 GHz, 45W, PGA) and the dual-core Intel Core i5-2510E processor (2.5 GHz, 35W, PGA) with up to 8 GByte high-speed dual-channel DDR3 memory (1333 MHz). Type 6 pin-out is the ideal solution for the Intel QM67 Express chipset series and its future generations. In addition to VGA and LVDS, it offers three digital display interfaces, each of which can be configured for DisplayPort (DP), HDMI or DVI. Unlike Type 2 modules, these are no longer multiplexed. Type 6 also provides a PEG (PCI Express Graphics) port enabling connection to other high-performance graphics components and thereby offering maximum display support for gaming and medical applications.

The main highlight of the COM Express Basic (95x125 mm) module is its outstanding graphics capacity. With conga-TM67, 3D performance has been significantly increased compared with previous Intel generations. Intel® HD graphics supports Intel® Clear Video Technology and DirectX Video Acceleration (DXVA) for faster video processing. Thanks to the increase in computing power offered by the second generation Intel® Core processor family, the conga-TM67 is the ideal graphics solution for gaming, medical technology, automation and digital signage applications. The integrated video coding function enables real-time processing of incoming video streams.

Fast and flexible system designs are made possible with seven PCI Express Lanes, PCI Express Graphics (PEG) x16 Lanes for high-performance external graphics cards, eight USB 2.0 ports, four SATA interfaces with RAID support, one EIDE and a 1GB Ethernet interface. Fan control, an LPC bus for the easy connection of Legacy I/O interfaces and Intel® High Definition Audio round off the range of functions

offered with this new product.

All conga-TM67 modules are fitted with the new UEFI embedded BIOS solution. The congatec board controller comes with an extensive embedded PC feature set. The board controller works independently from the x86 processor which means functions such as system monitoring and the I²C bus work faster and more reliably – even when the system is in standby mode.

The conga-TM67 is available immediately with prices starting at less than US $500. A COM Express Type 6-compatible evaluation carrier board is also available. More details can be provided by contacting sales@congatec.us [1] or visiting www.congatec.us [2].

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