

COM Express Type 6 Module Features Low-Power Intel Processors



congatec AG, a leading manufacturer of embedded computer modules, announces the conga-TS67, a new low-power module for advanced designs. It supports Pin-out Type 6 and provides improved display options along with increased bandwidth thanks to digital display interfaces and additional PCI Express lanes. With new, super low-power Intel processors soldered on in a BGA package, the module is suitable for vibration-resistant applications.

The module is available in four second generation low-power Intel Core processor versions, from the Intel Celeron 807UE processor (1M Cache, 1.0 GHz) with just 10 Watt TDP to the Intel Core i7 2610UE dual core processor (4M Cache, 1.50 GHz) with 17 Watt TDP and up to 8 GB dual-channel DDR3 memory (1333 MHz). Pin-out Type 6 is the ideal solution for the implemented Intel QM67 Express chipset series and future generations. In addition to VGA and LVDS, it provides three digital display interfaces, which can each be configured for DisplayPort (DP), HDMI or DVI and which – in contrast to Type 2 modules – are no longer multiplexed. Type 6 also features a PEG (PCI Express Graphics) port enabling the connection of additional powerful graphics components for maximum display support, for instance in gaming and medical applications.

The biggest highlight of the COM Express Basic module (95x125 mm) is its outstanding graphics performance. Compared with previous Intel generations the 3D performance has again increased significantly. The Intel® HD graphics supports Intel Clear Video Technology and DirectX Video Acceleration (DXVA) for faster video processing. In combination with the additional computing power provided by the second generation of Intel Core processors, the conga-TS67 is the ideal solution for demanding graphics applications in the gaming, medical technology, automation and digital signage sector. The integrated video decoding function enables real-time processing of incoming video streams.

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 enable fast and flexible

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system updating. Fan control, an LPC bus for the easy connection of Legacy I/O interfaces and Intel® High Definition Audio complete the feature set.

All conga-TS67 modules are fitted with the new UEFI embedded firmware solution. The congatec board controller comes with an extensive embedded PC feature set. Independence from the x86 processor allows functions such as system monitoring and I²C bus to work faster and more reliably – even when the system is in standby mode. A suitable evaluation carrier board for COM Express Type 6 is also available.

More information is available on the website at www.congatec.com [1].

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