

HIGH END PERFORMANCE

conga-TS87

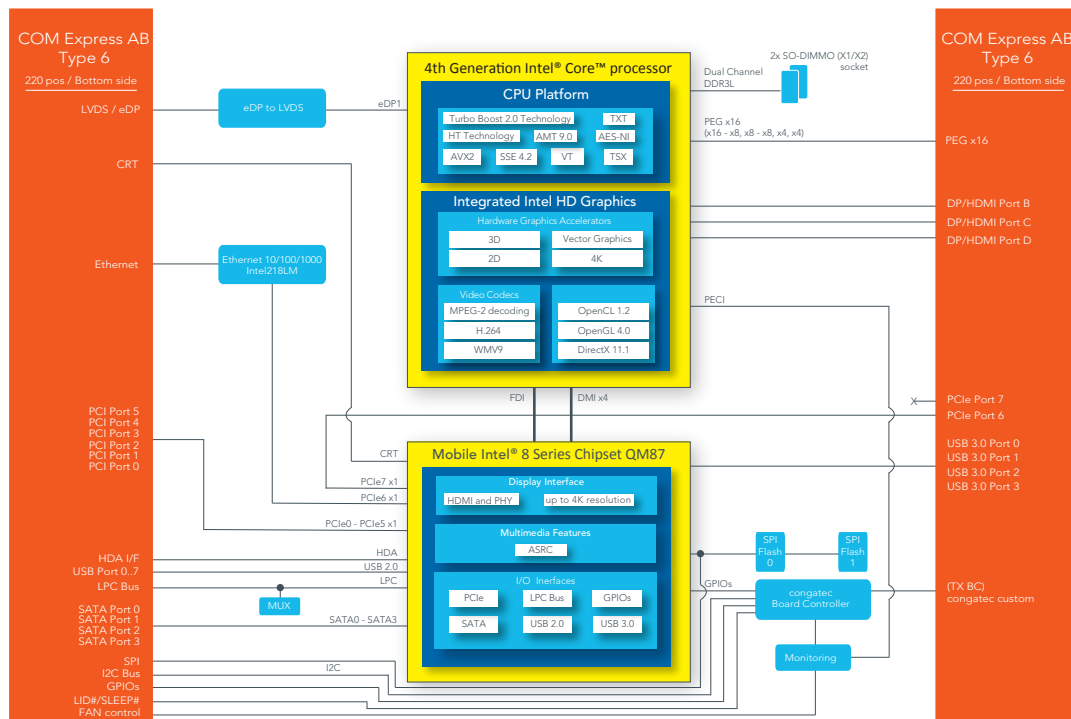


- 4th Gen. Intel® Core™ i7 quad core processor
- 3x DisplayPort 1.2, up to 4k resolution
- COM Express Basic Type 6 module
- Intel® AES-NI for hardware accelerated encryption and decryption

COM  **Express®**

| | | | | | | | |
|---------------------------|--|-----------|----------|---------------------|--------------|---------|-------------------------------|
| Formfactor | Formfactor COM Express™ Basic (95 x 125 mm) Type 6 Connector Layout | | | | | | |
| CPU | Intel® Core™ i7-4700EQ | Quad Core | 2.4 GHz | Turbo Boost 3.4 GHz | 6M Cache | TDP 47W | AVX2 AES-NI AMT 9.0 TXT |
| | Intel® Core™ i5-4400E | Dual Core | 2.7 GHz | Turbo Boost 3.3 GHz | 3M Cache | TDP 37W | AVX2 AES-NI AMT 9.0 TXT |
| | Intel® Core™ i5-4402E | Dual Core | 1.6 GHz | Turbo Boost 2.7 GHz | 3M Cache | TDP 25W | AVX2 AES-NI AMT 9.0 TXT |
| | Intel® Core™ i3-4100E | Dual Core | 2.4 GHz | | 3M Cache | TDP 37W | AES-NI |
| | Intel® Core™ i3-4102E | Dual Core | 1.6 GHz | | 3M Cache | TDP 25W | AES-NI |
| | Intel® Celeron™ 2000E | Dual Core | 2.2 GHz | | 2MB L3 cache | TDP 37W | |
| | Intel® Celeron™ 2002E | Dual Core | 1.56 GHz | | 2MB L3 cache | TDP 25W | |
| | Intel® Turbo Boost Technology Intel® Hyper-Threading Technology (Intel® HT Technology) Intel® Advanced Vector Extensions 2.0 (Intel® AVX2) Intel® Advanced Encryption Standard New Instructions (Intel® AES-NI) Integrated dual channel memory controller up to 25.6 GByte/sec. memory bandwidth Intel® HD graphics with dynamic frequency up to 1GHz Intel® Clear Video HD Technology Intel® Virtualization Technology (Intel® VT) Intel® Trusted Execution Technology (Intel® TXT) Intel® Streaming SIMD Extensions 4.2 (Intel® SSE4.2) PCLMULQDQ Instruction Intel® Secure Key Intel® Transactional Synchronization Extensions (Intel® TSX) | | | | | | |
| DRAM | 2 Sockets SO-DIMM DDR3L@1.35V up to 1600MT/s and 16GByte | | | | | | |
| Chipset | Mobile Intel® 8 Series Chipset: Intel® QM87 for Intel® Core™ processors / HM86 @ planned Celeron variants | | | | | | |
| Ethernet | Intel® I218-LM GbE LAN Controller with AMT 9.0 support | | | | | | |
| I/O Interfaces | 7x PCI Express™ GEN. 2.0 lanes 1x PEG GEN 3.0 (8GT/s) 4x Serial ATA® 6 Gb/s RAID 0/1/5/10 support 2x ExpressCard® 4x USB 3.0 (XHCI) 8x USB 2.0 (EHCI) LPC bus I²C bus (fast mode, 400 kHz, multi-master) | | | | | | |
| Sound | Digital High Definition Audio Interface with support for multiple audio codecs | | | | | | |
| Graphics | Next Generation Intel® HD Graphics with OpenCL 1.2 OpenGL 4.0 and DirectX11.1 support; up to three independent displays: HDMI 1.4, DVI, DP, VGA; High performance hardware MPEG-2 decoding WMV9 (VC-1) and H.264 (AVC) support Blu-ray support @ 40 MBit/s | | | | | | |
| LVDS (eDP optional) | Dual channel LVDS transmitter Supports flat panels 2x24 Bit interface VESA mappings resolutions up to 1920x1200 Automatic Panel Detection via EDID/EPI | | | | | | |
| Digital Display Interface | 3x DS (DVI HDMI) / DisplayPort 1.2a with daisy chaining resolutions up to 4k | | | | | | |
| CRT Interface | 350 MHz RAMDAC resolutions up to QXGA (2048x1536 @75Hz) | | | | | | |
| congatec Board Controller | Multi Stage Watchdog non-volatile User Data Storage Manufacturing and Board Information Board Statistics BIOS Setup Data Backup I²C bus (fast mode, 400 kHz, multi-master) Power Loss Control | | | | | | |
| Embedded BIOS Features | AMI Aptio® UEFI 2.x firmware 8 MByte serial SPI firmware flash | | | | | | |
| Security | The conga-TS87 can be optionally equipped with a discrete "Trusted Platform Module" (TPM). It is capable of calculating efficient hash and RSA algorithms with key lengths up to 2,048 bits and includes a real random number generator. Security sensitive applications such as gaming and e-commerce will benefit also with improved authentication, integrity and confidence levels. | | | | | | |
| Power Management | ACPI 4.0 with battery support | | | | | | |
| Operating Systems | Microsoft® Windows 8 Microsoft® Windows 7 Linux Microsoft® Windows® embedded Standard | | | | | | |
| Power Consumption | Typ. application: tbd. see manual for full details CMOS Battery Backup | | | | | | |
| Temperature | Operating: 0 .. +60°C Storage: -20 .. +80°C | | | | | | |
| Humidity | Operating: 10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond. | | | | | | |
| Size | 95 x 125 mm (3.74" x 4.92") | | | | | | |

conga-TS87 | Block diagram



conga-TS87 | Order Information

| Article | PN | Description |
|------------------------------------|--------|---|
| conga-TS87/i7-4700EQ | 046804 | Intel® Core™ i7-4700EQ quad core processor with 2.4GHz 6MB L2 cache and 1600MT/s dual channel DDR3L memory interface |
| conga-TS87/i5-4402E | 046805 | Intel® Core™ i5-4402E dual core processor with 1.6GHz 3MB L2 cache and 1600MT/s dual channel DDR3L memory interface |
| conga-TS87/i5-4400E | 046806 | Intel® Core™ i5-4400E dual core processor with 2.7GHz 3MB L2 cache and 1600MT/s dual channel DDR3L memory interface |
| conga-TS87/i3-4102E | 046807 | Intel® Core™ i3-4102E dual core processor with 1.6GHz 3MB L2 cache and 1600MT/s dual channel DDR3L memory interface |
| conga-TS87/i3-4100E | 046808 | Intel® Core™ i3-4100E dual core processor with 2.4GHz 3MB L2 cache and 1600MT/s dual channel DDR3L memory interface |
| conga-TS87/2000E | 046810 | Intel® Celeron™ 2000E dual core processor with 2.2GHz 2MB L3 cache and 1600MT/s dual channel DDR3L memory interface |
| conga-TS87/2002E | 046811 | Intel® Celeron™ 2002E dual core processor with 1.56GHz 2MB L3 cache and 1600MT/s dual channel DDR3L memory interface |
| conga-TS87/HSP-FP-B | 046851 | Standard heatspreader for high performance COM Express module conga-TS87 with flat heat pipes. All standoffs are with 2.7mm bore hole |
| conga-TS87/HSP-FP-T | 046852 | Standard heatspreader for high performance COM Express module conga-TS87 with flat heat pipes. All standoffs are M2.5mm threaded |
| conga-TS87/CSA-FP-B | 046853 | Standard active cooling solution for high performance COM Express module conga-TS87 with flat heat pipes 15mm fins 20mm overall heat sink height and integrated 12V fan. All standoffs are with 2.7mm bore hole |
| conga-TS87/CSA-FP-T | 046854 | Standard active cooling solution for high performance COM Express module conga-TS87 with flat heat pipes 15mm fins 20mm overall heat sink height and integrated 12V fan. All standoffs are M2.5mm threaded |
| conga-TS87/CSP-FP-B | 046855 | Standard passive cooling solution for high performance COM Express module conga-TS87 with flat heat pipes 15mm fins and 20mm overall heat sink height. All standoffs are with 2.7 mm bore hole |
| conga-TS87/CSP-FP-T | 046856 | Standard passive cooling solution for high performance COM Express module conga-TS87 with flat heat pipes 15mm fins and 20mm overall heat sink height. All standoffs are M2.5mm threaded |
| DDR3L-SODIMM-1600 (2GB) | 068755 | DDR3L SODIMM memory module with 1600 MT/s (PC3L-12800S) and 2GB RAM |
| DDR3L-SODIMM-1600 (4GB) | 068756 | DDR3L SODIMM memory module with 1600 MT/s (PC3L-12800S) and 4GB RAM |
| DDR3L-SODIMM-1600 (8GB) | 068757 | DDR3L SODIMM memory module with 1600 MT/s (PC3L-12800S) and 8GB RAM |
| Accessories | | |
| conga-TEVAL | 065800 | Evaluation carrier board for Type 6 COM-Express-modules |
| conga-LDVI/EPI | 011115 | LVDS to DVI converter board for digital flat panels with onboard EEPROM |
| COM-Express-carrier-board-Socket-5 | 400007 | Connector for COM-Express carrier boards height 5mm packing unit 4 pieces |
| COM-Express-carrier-board-Socket-8 | 400004 | Connector for COM-Express carrier boards height 8mm packing unit 4 pieces |

© 2015 congatec AG. All rights reserved.

All data is for information purposes only. Although all the information contained within this document is carefully checked, no guarantee of correctness is implied or expressed. Product names, logos, brands, and other trademarks featured or referred are the property of their respective trademark holders. These trademark holders are not affiliated with congatec AG. Rev. December 2, 2015 KS

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9