

HIGH END PERFORMANCE

conga-TS87

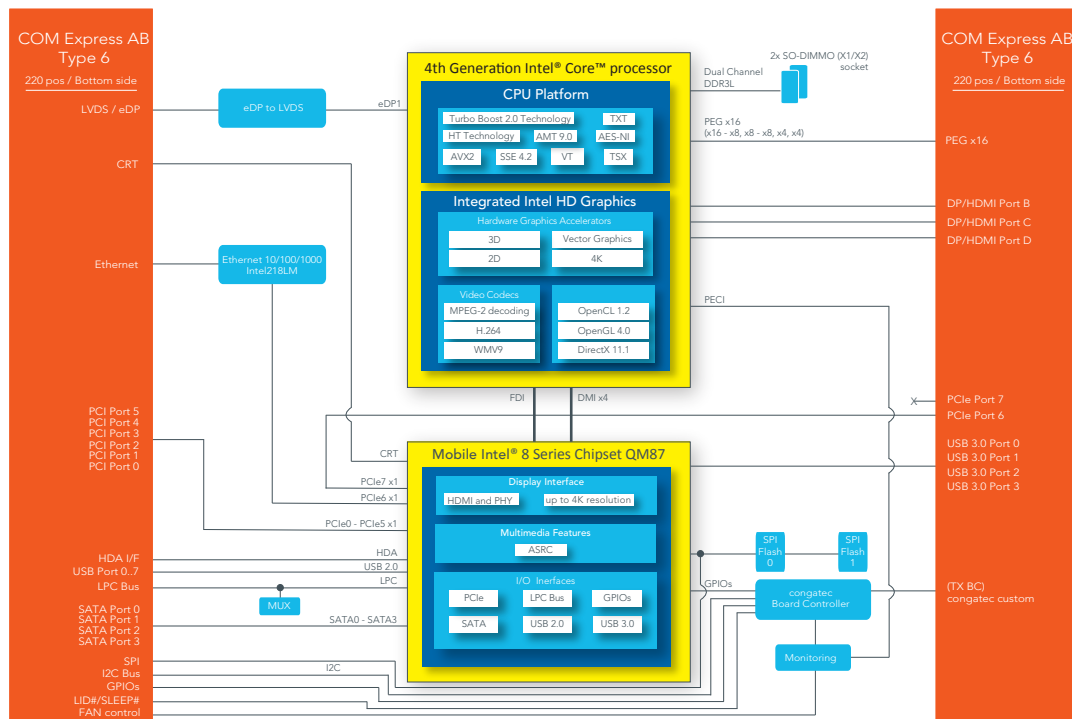


- 4th Gen. Intel® Core™ i7 quad core processor
- 3x DisplayPort 1.2, up to 4k resolution
- COM Express Basic Type 6 module
- Intel® AES-NI for hardware accelerated encryption and decryption

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 |

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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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