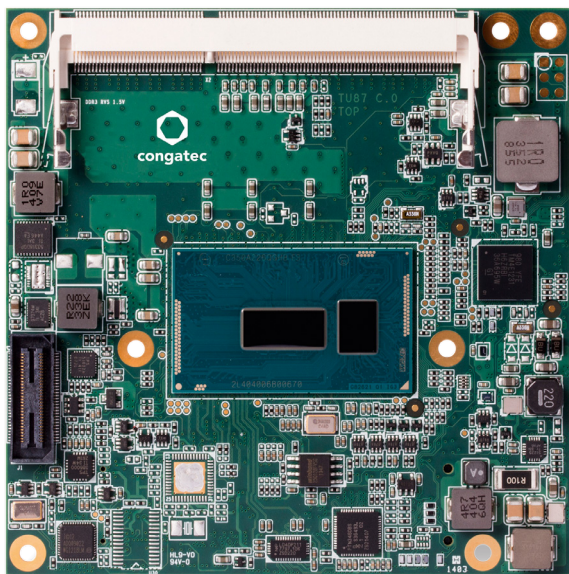


FAST AND COMPACT

conga-TC97

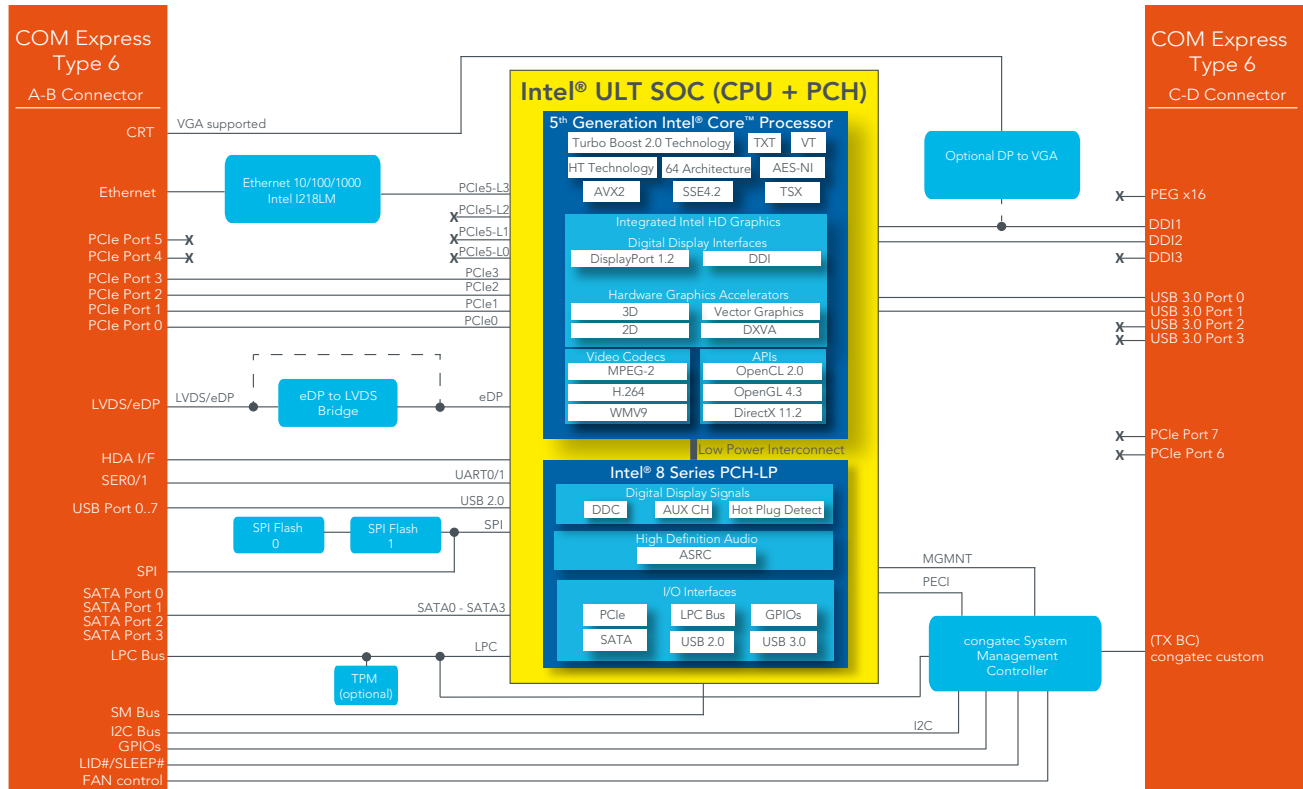


- 5th Gen. Intel® Core™ i7 dual core processor
- 15W nominal TDP
- 3x DisplayPort 1.2, up to 4k resolution
- Intel® AVX 2.0 Vector extension for improved floating point computing
- COM Express Compact Type 6 module



| | | | | | | |
|---------------------------------|--|-------------------|---------------------|------------|-----------------|-------------|
| Formfactor | COM Express® Compact, (95 x 95 mm), Type 6 Connector Layout | | | | | |
| CPU | Intel® Core™ i7-5650U | 2.2 GHz Dual Core | Turbo Boost 3.1 GHz | 4 MB Cache | 15W nominal TDP | GT3 HD 6000 |
| | Intel® Core™ i5-5350U | 1.8 GHz Dual Core | Turbo Boost 2.9 GHz | 3 MB Cache | 15W nominal TDP | GT3 HD 6000 |
| | Intel® Core™ i3-5010U | 2.1 GHz Dual Core | | 3 MB Cache | 15W nominal TDP | GT2 HD 5500 |
| | Intel® Celeron® 3765U | 1.9 GHz Dual Core | | 2 MB Cache | 15W nominal TDP | GT1 HD |
| | Intel® Turbo Boost 2.0 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 Integrated Intel® HD Graphics 6000 series with dynamic frequency up to 1.0 GHz, 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 32GByte | | | | | |
| Chipset | Integrated PCH-LP | | | | | |
| Ethernet | Intel® I218-LM GbE LAN Controller with AMT 10 support | | | | | |
| I/O Interfaces | 4x PCI Express™ Gen. 2.0 lanes 4x Serial ATA® RAID 0/1/5/10 support 2x ExpressCard® 2x 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 2.0, OpenGL 4.3 and DirectX11.2 support up to three independent displays 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 and OpenLDI color mapping resolutions up to 1920x1200 Automatic Panel Detection via EDID/EPI | | | | | |
| Digital Display Interface (DDI) | 2x DDI (TMDS/DisplayPort 1.2a) with support for Multi-Stream Transport (MST), resolutions up to 4k | | | | | |
| congatec Board Controller | Multi Stage Watchdog non-volatile User Data Storage Manufacturing and Board Information Board Statistics LVDS backlight control I²C bus (fast mode, 400 kHz, multi-master) Power Loss Control | | | | | |
| Embedded BIOS Features | AMI Aptio® UEFI 2.x firmware 8/16 MByte serial SPI firmware flash | | | | | |
| Security | The conga-TC97 can be optionally equipped with a discrete "Trusted Platform Module" (TPM 1.2 / 2.0). 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 10 Microsoft® Windows IoT Enterprise Microsoft® Windows 8 Microsoft® Windows 7 Linux Microsoft® Windows embedded Standard | | | | | |
| Power Consumption | See User's Guide for full details CMOS Battery Backup Ultra low standby power, support for CPU power states up to C10 | | | | | |
| 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 95 mm (3.74" x 3.74") | | | | | |

conga-TC97 | Block diagram



conga-TC97 | Order Information

| Article | PN | Description |
|-------------------------|--------|--|
| conga-TC97/i7-5650U | 045103 | COM Express Type 6 Compact module with Intel® Core™ i7-5650U dual core processor with 2.2GHz, 4MB L2 cache and 1600MT/s dual channel DDR3L memory interface. |
| conga-TC97/i5-5350U | 045104 | COM Express Type 6 Compact module with Intel® Core™ i5-5350U dual core processor with 1.8GHz, 3MB L2 cache and 1600MT/s dual channel DDR3L memory interface. |
| conga-TC97/i3-5010U | 045105 | COM Express Type 6 Compact module with Intel® Core™ i3-5010U dual core processor with 2.1GHz, 3MB L2 cache and 1600MT/s dual channel DDR3L memory interface. |
| conga-TC97/3765U | 045106 | COM Express Type 6 Compact module with Intel® Celeron® 3765U dual core processor with 1.9GHz, 2MB L2 cache and 1600MT/s dual channel DDR3L memory interface. |
| conga-TC170/HSP-B | 045230 | Standard heatspreader for COM Express modules conga-TC97, TC170 and TC175. All standoffs are with 2.7mm bore hole. |
| conga-TC170/HSP-T | 045231 | Standard heatspreader for COM Express modules conga-TC97, TC170 and TC175. All standoffs are M 2.5 threaded. |
| conga-TC170/CSP-B | 045232 | Standard passive cooling solution for COM Express modules conga-TC97, TC170 and TC175. All standoffs are with 2.7mm bore hole. |
| conga-TC170/CSP-T | 045233 | Standard passive cooling solution for COM Express modules conga-TC97, TC170 and TC175. All standoffs are M 2.5 threaded |
| conga-TC170/CSA-B | 045234 | Standard active cooling solution for COM Express modules conga-TC97, TC170 and TC175. All standoffs are with 2.7mm bore hole, 15mm fins, 18mm overall heat sink height and integrated 12V fan. |
| conga-TC170/CSA-T | 045235 | Standard active cooling solution for COM Express modules conga-TC97, TC170 and TC175. All standoffs are M 2.5 threaded, 15mm fins, 18mm overall heat sink height and integrated 12V fan. |
| 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 |

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