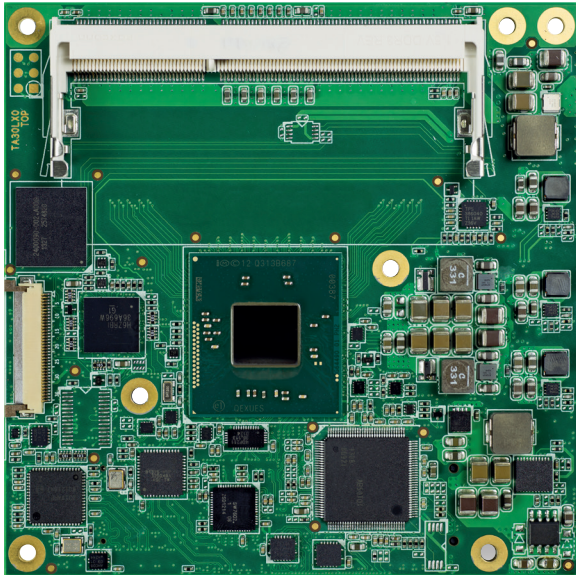


LOW POWER CONSUMPTION

conga-TCA3

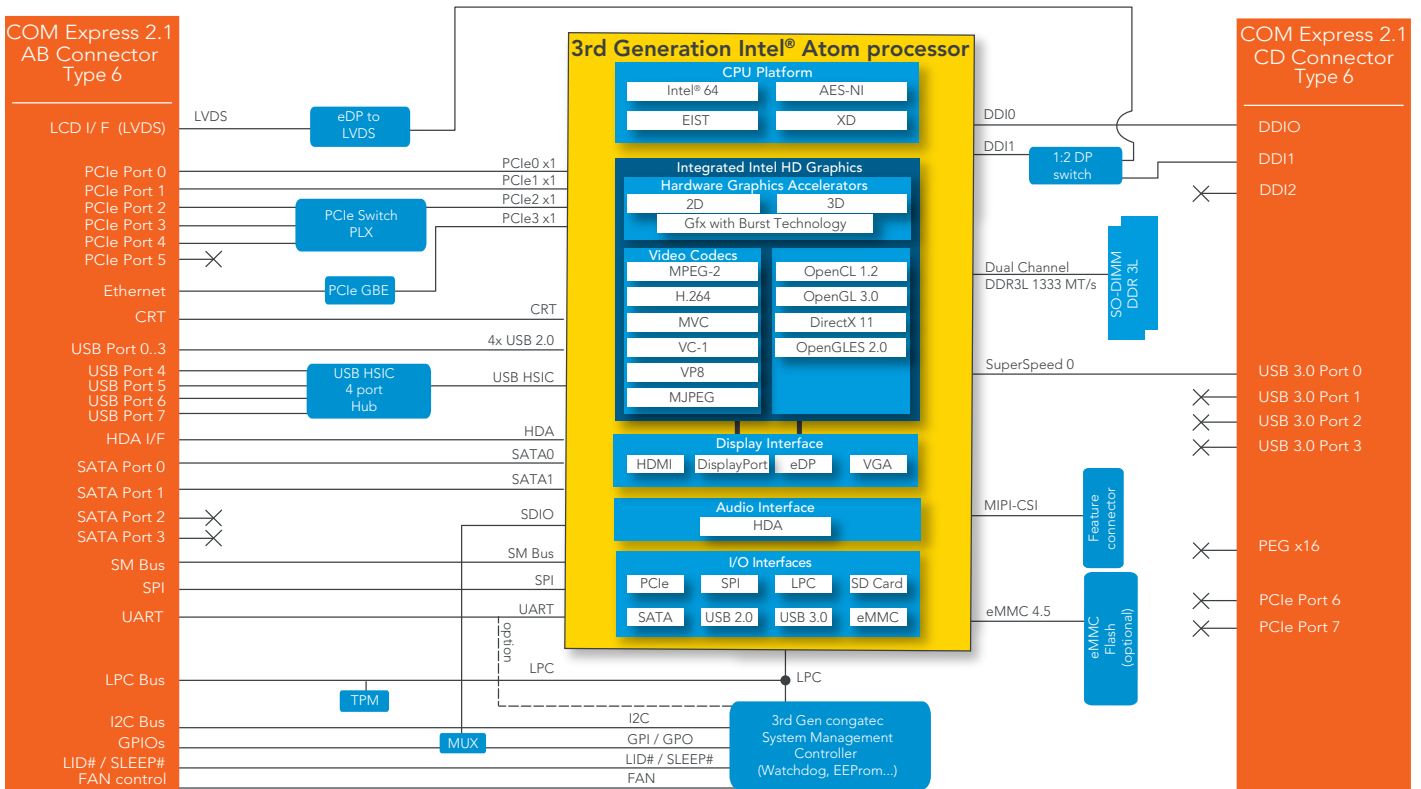


- 3rd Gen. Intel® Atom™ processor up to Quad Core
- COM Express Compact Type 6 module
- Temperature range up to -40°C .. +85°C

COM  **Express®**

| | | | | |
|---------------------------------|---|-------------------------|-----------------------|----------|
| Formfactor | Formfactor COM Express® Compact (95 x 95 mm) Type 6 Connector Layout | | | |
| CPU | Intel® Atom™ E3845 | 1.91 GHz Quad Core | L2 Cache 2MB | 10W TDP |
| | Intel® Atom™ E3827 | 1.75 GHz Dual Core | L2 Cache 1MB | 8W TDP |
| | Intel® Atom™ E3826 | 1.46 GHz Dual Core | L2 Cache 1MB | 7W TDP |
| | Intel® Atom™ E3825 | 1.33 GHz Dual Core | L2 Cache 1MB | 6W TDP |
| | Intel® Atom™ E3815 | 1.46 GHz Single Core | L2 Cache 512kB | 5W TDP |
| | Intel® Celeron® J1900 | 2.0 GHz Quad Core | L2 Cache 2MB | 10W TDP |
| | Intel® Celeron® N2930 | 1.83 GHz Quad Core | L2 Cache 2MB | 7.5W TDP |
| | Intel® Celeron® N2807 | 1.58 GHz Dual Core | L2 Cache 1MB | 4.3W TDP |
| DRAM | 2 SO-DIMM sockets for DDR3L memory modules up to 8 GByte with 1333MT/s Dual channel memory interface for increased graphics performance. | | | |
| Chipset | Integrated in SoC | | | |
| Ethernet | Intel I210 Gigabit Ethernet | | | |
| I/O Interfaces | Up to 5x PCIe x1 8x USB 2.0 1x USB 3.0 2x SATA LPC SPI I ² C bus (fast mode 400 kHz multi-master) SDIO | | | |
| Sound | Digital High Definition Audio Interface | | | |
| Graphics | Intel® HD Graphics Gen 7 Full hardware acceleration for MPEG2 H.264 DirectX11 OCL 1.1 OGL 3.2 WMV9 and VC1 | | | |
| LVDS | Dual channel LVDS transmitter support for flat panels with 2x24 bit data mapping up to a resolution of 1920x1200@60Hz. | | | |
| Digital Display Interface (DDI) | Up to 2x DisplayPort 1.1 (max. 2560x1600) or HDMI 1.4a (max. 1920x1200) | | | |
| CRT Interface | 320 MHz RAMDAC resolutions up to 2560x1600 | | | |
| congatec Board Controller | Multi Stage Watchdog non-volatile User Data Storage Manufacturing and Board Information Board Statistics BIOS Setup Data Backup I ² C bus (fast mode, 400 kHz, multi-master) Power Loss Control | | | |
| Embedded BIOS Features | OEM Logo OEM CMOS Defaults LCD Control Display Auto Detection Backlight Control Flash Update based on AMI Aptio UEFI | | | |
| Security | Trusted Platform Module (TPM) optional. Hash and RSA algorithms key lengths up to 2048 bits real random number generator | | | |
| Power Management | ACPI 5.0 with battery support | | | |
| Operating Systems | Microsoft® Windows 8 Microsoft® Windows 7 Linux Microsoft® Windows Embedded Standard Microsoft® Windows 7 Embedded Compact | | | |
| Power Consumption | Typ. application: see user's guide for full details CMOS Battery Backup | | | |
| Temperature | Commercial : | Operating: 0 to +60°C | Storage: -20 to +80°C | |
| | Industrial : | Operating: -40 to +85°C | Storage: -45 to +85°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-TCA3 | Block diagram



conga-TCA3 | Order Information

| Article | PN | Description |
|------------------------------------|--------|---|
| conga-TCA3/E3845 | 047300 | Intel® Atom™ E3845 quad core processor with 1.91GHz, 2MB L2 cache and 1333MT/s dual channel DDR3L memory interface. |
| conga-TCA3/E3827 | 047301 | Intel® Atom™ E3827 dual core processor with 1.75GHz, 1MB L2 cache and 1333MT/s dual channel DDR3L memory interface. |
| conga-TCA3/E3826 | 047302 | Intel® Atom™ E3826 dual core processor with 1.46GHz, 1MB L2 cache and 1066MT/s dual channel DDR3L memory interface. |
| conga-TCA3/E3825 | 047303 | Intel® Atom™ E3825 dual core processor with 1.33GHz, 1MB L2 cache and 1066MT/s single channel DDR3L memory interface. |
| conga-TCA3/E3815 | 047304 | Intel® Atom™ E3815 single core processor with 1.46GHz, 512kB L2 cache and 1066MT/s single channel DDR3L memory interface. |
| conga-TCA3/i-E3845 | 047310 | Intel® Atom™ E3845 quad core processor with 1.91GHz, 2MB L2 cache and 1333MT/s dual channel DDR3L memory interface. Industrial grade temperature range from -40°C to 85°C. |
| conga-TCA3/i-E3827 | 047311 | Intel® Atom™ E3827 dual core processor with 1.75GHz, 1MB L2 cache and 1333MT/s dual channel DDR3L memory interface. Industrial grade temperature range from -40°C to 85°C. |
| conga-TCA3/i-E3826 | 047312 | Intel® Atom™ E3826 dual core processor with 1.46GHz, 1MB L2 cache and 1066MT/s dual channel DDR3L memory interface. Industrial grade temperature range from -40°C to 85°C. |
| conga-TCA3/i-E3815 | 047314 | Intel® Atom™ E3815 single core processor with 1.46GHz, 512kB L2 cache and 1066MT/s single channel DDR3L memory interface. Industrial grade temperature range from -40°C to 85°C. |
| conga-TCA3/J1900 | 047305 | Intel® Celeron® J1900 quad core processor with 2.00GHz, 2MB L2 cache and 1333MT/s dual channel DDR3L memory interface. |
| conga-TCA3/N2930 | 047307 | Intel® Celeron® N2930 quad core processor with 1.83GHz up to 2.16GHz, 2MB L2 cache and 1333MT/s dual channel DDR3L memory interface. |
| conga-TCA3/N2807 | 047308 | Intel® Celeron® N2807 dual core processor with 1.58GHz up to 2.16GHz, 1MB L2 cache and 1333MT/s single channel DDR3L memory interface. Ultra-low power consumption with 4.5W TDP. |
| TCA3/HSP-T | 047350 | Standard heatspreader for COM Express module conga-TCA3. All standoffs are M2.5 thread. |
| TCA3/HSP-B | 047351 | Standard heatspreader for COM Express module conga-TCA3. All standoffs are 2.7mm bore hole. |
| TCA3/CSP-T | 047352 | Standard passive cooling solution for COM Express module conga-TCA3 with 20mm overall heat sink height. All standoffs are M2.5mm thread. |
| TCA3/CSP-B | 047353 | Standard passive cooling solution for COM Express module conga-TCA3 with 20mm overall heat sink height. All standoffs are 2.7mm bore hole. |
| 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 |
| DDR3L-SODIMM-1600 (2GB) industrial | 068782 | Industrial DDR3L SODIMM memory module with 1600 MT/s (PC3L-12800S) and 2GB RAM |
| DDR3L-SODIMM-1600 (4GB) industrial | 068783 | Industrial DDR3L SODIMM memory module with 1600 MT/s (PC3L-12800S) and 4GB RAM |
| DDR3L-SODIMM-1600 (8GB) industrial | 068784 | Industrial 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 |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.