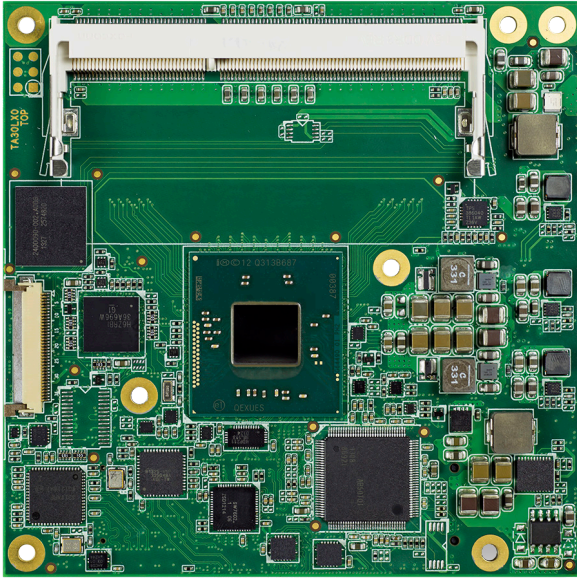


LOW POWER CONSUMPTION

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



| | | | | |
|---------------------------------|---|--------------------------|----------------------------------|----------|
| 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 DDI (max. 2560x1600) | | | |
| 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 10 Microsoft® Windows 10 IoT Enterprise Microsoft® Windows 10 IoT Core Microsoft® Windows 8 Microsoft® Windows 7 Microsoft® Windows Embedded Standard Microsoft® Windows 7 Embedded Compact Android Yocto MoonIsland / WindRiver IDP | | | |
| 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

