

conga-XAF

High graphics performance with low power consumption

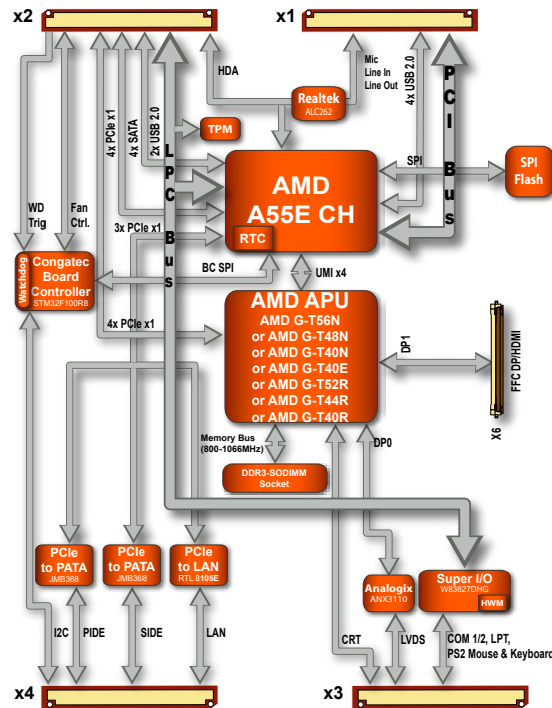


- Based on AMD Embedded G-Series Processors
- Best price/performance ratio
- High performance graphics



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|---------------------------|---|---------|-------------|---------------|-------------------|-----------|
| Formfactor | ETX® Spec 2.7. without ISA Support XTX™ Extensions | | | | | |
| CPU | AMD Embedded G-Series Processors | | | | | |
| | AMD G-T56N | 1.6 GHz | Dual Core | L1 cache 64KB | L2 cache 512kB x2 | TDP 18 W |
| | AMD G-T52R | 1.5 GHz | Single Core | L1 cache 64KB | L2 cache 512kB | TDP 18 W |
| | AMD G-T40R | 1.0 GHz | Single Core | L1 cache 64KB | L2 cache 512kB | TDP 5.5 W |
| | AMD G-T40E | 1.0 GHz | Dual Core | L1 cache 64KB | L2 cache 512kB x2 | TDP 6.5 W |
| DRAM | Single channel up to one 4 GB DDR3 SO-DIMM memory (up to 1066 MHz) | | | | | |
| Chipset | AMD A55E Controller Hub | | | | | |
| Ethernet | 10/100M Fast Ethernet Realtek RTL8105E | | | | | |
| I/O Interfaces | 4x PCI Express™ x1 lanes 4x Serial ATA® 2x EIDE (up to UDMA-66/100) 6x USB 2.0 PCI Bus (Rev. 2.3 compliant / 33 MHz) 2x Express Card LPC Bus I²C (Fast Mode / 400 kHz Multi Maser) Floppy LPT 2x COM PS/2 | | | | | |
| Sound | High Definition Audio Interface and Analog MIC Line In Line Out by on-module HDA codec | | | | | |
| Graphics | Integrated High Performance Video DirectX®11 graphics with UVD 3.0 Integrated VGA DAC Dual Simultaneous Display Support no PEG support | | | | | |
| LVDS | 2x24 Bit 800x600 to 1920x1200@60Hz; VESA standard or JEDIA data mapping; Automatic Panel Detection via EDID/EPI | | | | | |
| DisplayPort | 1x DisplayPort 1.1a shared with HDMI port resolutions up to 2560x1600 - 18W APU 1920x1200 - 9W APU | | | | | |
| HDMI or DVI | 1x HDMI 1.3 Port shared with DisplayPort resolutions up to 1920x1080 / 1920x1200 for DVI mode | | | | | |
| CRT | 400 MHz RAMDAC resolutions up to 2560x1600 - 18W APU 1920x1200 9W APU | | | | | |
| 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 BIOS with congatec Embedded BIOS features | | | | | |
| Security | The conga-XAF 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 3.0 with battery support | | | | | |
| Operating Systems | Microsoft® Windows8 Microsoft® Windows7 Microsoft® Windows XP Microsoft® Windows® embedded Standard Microsoft® Windows CE 6.0 Windows Embedded Compact 7 Linux | | | | | |
| Power Consumption | Typ. application: 9 .. 18 W. 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 114 mm (3.7" x 4.5") | | | | | |

conga-XAF | Block diagram



conga-XAF | Order Information

| Article | PN | Description |
|------------------------------|--------|--|
| conga-XAF/T56N | 041031 | AMD G-Series dual core processor T56N 1.6GHz 1MB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 4GB |
| conga-XAF/T40N | 041033 | AMD G-Series dual core processor T40N 1.0GHz 1MB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 4GB |
| conga-XAF/T52R | 041034 | AMD G-Series single core processor T52R 1.5GHz 512kB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 4GB |
| conga-XAF/T44R | 041035 | AMD G-Series single core processor T44R 1.2GHz 512kB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 4GB |
| conga-XAF/T40R | 041036 | AMD G-Series single core processor T40R 1.0GHz 5.5W 1MB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 4GB |
| conga-XAF/T40E | 041037 | AMD G-Series dual core processor T40E 1.0GHz 6.5W 1MB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 4GB |
| conga-XAF/HSP-B | 041050 | Standard heatspreader for XTX module conga-XAF and EAF. All standoffs are with 2.7mm bore hole |
| conga-XAF/HSP-T | 041051 | Standard heatspreader for XTX module conga-XAF and EAF. All standoffs are M2.5mm thread |
| conga-XAF/CSP-B | 041055 | Standard passive cooling solution for modules conga-XAF and EAF. All standoffs are with 2.7mm bore hole |
| conga-XAF/CSP-T | 041056 | Standard passive cooling solution for modules conga-XAF and EAF. All standoffs are M2.5mm thread |
| conga-XAF/CSA-B | 041057 | Standard active cooling solution for modules conga-XAF and EAF. Integrated 12V fan. All standoffs are with 2.7mm bore hole |
| conga-XAF/CSA-T | 041058 | Standard active cooling solution for modules conga-XAF and EAF. Integrated 12V fan. All standoffs are M2.5mm thread |
| DDR3-SODIMM-1066 (1GB) | 068750 | DDR3 SODIMM memory module with 1066MT/s and 1GB RAM |
| 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 |
| Accessories | | |
| conga-Xeval | 019482 | Evaluation carrier board for XTX-modules |
| conga-XDVI | 098637 | Evaluation platform to convert SDVO to DVI-D |
| conga-Xdebug | 041784 | XTX debugging platform. Including cable for COM PS/2 and VGA |
| conga-FPA2 | 047250 | Flatpanel prototype adapter to develop your own flatpanel adapter Including cables set |
| XTX/ETX-baseboard-socket-3 | 400006 | Connector for ETX and XTX carrier boards height 3.0 mm packing unit 8 pieces |
| XTX/ETX-baseboard-socket-9.5 | 400009 | Connector for ETX and XTX carrier boards height 9.5 mm packing unit 8 pieces |
| conga-LDVI/EPI | 011115 | LVDS to DVI adapter board for digital flat panels with a graphics resolution up to 1280x1024 pixel |

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