

COM Express® Basic Module

High graphics performance with low power consumption

conga-BAF

Based on AMD Embedded G-Series Processors

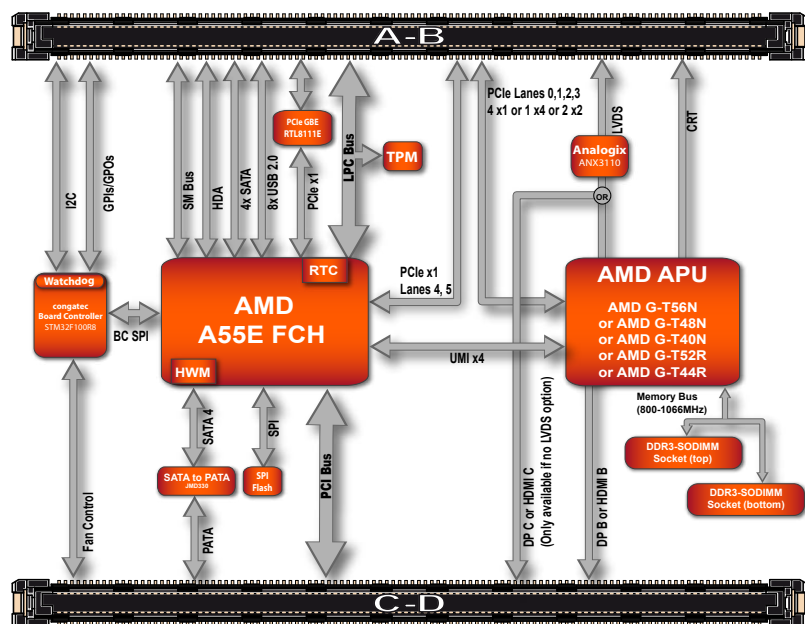
Best price/performance ratio

High performance graphics



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|----------------------------------|--|
| Formfactor | COM Express™ Basic, (95 x 125 mm), Type II Connector Layout |
| CPU | AMD Embedded G-Series Processors AMD G-T56N 1.6 GHz Dual Core (cache 512kB x2, 18 W) AMD G-T40N 1.0 GHz Dual Core (cache 512kB x2, 9W) AMD G-T44R 1.2 GHz Single Core (cache 512kB, 9W) AMD G-T40E 1.0 GHz Dual Core (cache 512kB x2, 6.4W) AMD G-T40R 1.0 GHz Single Core (cache 512kB, 5.5W) |
| DRAM | Single channel up to two 4 GB DDR3 SO-DIMM memory (up to 1066 MHz) |
| Chipset | AMD A55E Controller Hub |
| Ethernet | Gigabit Ethernet, Realtek RTL8111E |
| I/O Interfaces | 6x PCI Express™ x1 lanes, 4x Serial ATA*, 1x EIDE (up to UDMA 6), 8x USB 2.0, PCI Bus (Rev. 2.3 compliant, 33 MHz), 2x Express™ Card |
| Sound | High Definition Audio Interface |
| 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 | 2x DisplayPort 1.1a shared with HDMI ports, second port multiplexed with LVDS resolutions up to 2560x1600 - 18W APU, 1920x1200 - 9W APU |
| HDMI or DVI | 2x HDMI 1.3 Ports, shared with DisplayPort, second port multiplexed with LVDS, 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, I ² C 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-BAF 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, Microsoft® Windows Embedded Compopt 7, Linux |
| 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") |

Block Diagram conga-BAF



Order Information conga-BAF

| Article | PN | Description |
|------------------------|--------|---|
| conga-BAF/T56N | 041001 | AMD G-Series Dual Core Processor T56N 1.6GHz, 1MB L2 cache and 1333MT/s DDR3 SODIMM memory interface for up to 8GB. |
| conga-BAF/T40N | 041003 | AMD G-Series Dual Core Processor T40N 1.0GHz, 1MB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 8GB. |
| conga-BAF/T44R | 041005 | AMD G-Series Single Core Processor T44R 1.2GHz, 512kB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 8GB. |
| conga-BAF/T40R | 041006 | AMD G-Series Single Core Processor T40R 1.0GHz, 5.5W, 1MB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 8GB. |
| conga-BAF/T40E | 041007 | AMD G-Series Dual Core Processor T40E 1.0GHz, 6.5W, 1MB L2 cache and 1066MT/s DDR3 SODIMM memory interface for up to 8GB. |
| conga-BAF/HSP-B | 041020 | Standard Heatspreader. All stand-offs are with 2.7mm bore hole. |
| conga-BAF/HSP-T | 041021 | Standard Heatspreader. All stand-offs are M2.5mm threaded. |
| conga-BAF/CSP-B | 041025 | Standard passive cooling solution for module conga-BAF. All standoffs are with 2.7mm bore hole. |
| conga-BAF/CSP-T | 041026 | Standard passive cooling solution for module conga-BAF. All standoffs are M2.5mm thread. |
| conga-BAF/CSA-B | 041027 | Standard active cooling solution for module conga-BAF. Integrated 12V fan. All standoffs are with 2.7mm bore hole. |
| conga-BAF/CSA-T | 041028 | Standard active cooling solution for module conga-BAF. Integrated 12V fan. All standoffs are M2.5mm thread. |
| DDR3-SODIMM-1333 (1GB) | 068751 | DDR3 SODIMM memory module with 1333 MT/s (PC3-10600) and 1GB RAM |
| DDR3-SODIMM-1333 (2GB) | 068761 | DDR3 SODIMM memory module with 1333 MT/s (PC3-10600) and 2GB RAM |
| DDR3-SODIMM-1333 (4GB) | 068764 | DDR3 SODIMM memory module with 1333 MT/s (PC3-10600) and 4GB RAM |

Engineering Tools / Accessories for COM Express*

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|-----------------------------------|--------|---|
| conga-CEVAL | 065749 | Evaluation carrier board for COM-Express-modules |
| conga-Cdebug | 047854 | COM-Express debugging platform. Including cable for COM, PS/2 and VGA. |
| conga-CKIT | 064714 | COM-Express-Starterkit, incl. conga-CEVAL, conga-CDEBUG, conga-FPA1 (PN: 024241), Dual DVI-D ADD2 card, Power supply, USB-Stick, ... Without COM Express-module |
| conga-LDVI/EPI | 011115 | LVDS to DVI converter board for digital flat panels with onboard EEPROM |
| conga-HDMI/Display Port adapter | 500014 | The conga-HDMI/DisplayPort adapter is used fo convert the chipset graphic ports Port-B, Port-C and Port-D to the HDMI or DisplayPort Interface |
| Single DVI-D ADD2 Card | 058500 | ADD2 display adapter card with single DVI-D digital output. Suitable for all Intel based platforms that support Serial Digital Display Outputs (SDVO) on the standard, x16 PCI Express Graphics (PEG) port. |
| Dual DVI-D ADD2 Card | 013226 | ADD2 display adapter card with dual independent DVI-D output. Suitable for all Intel based platforms that support Serial Digital Display Outputs (SDVO) on the standard, x16 PCI Express Graphics (PEG) port. |
| conga-FPA2 | 047250 | Flatpanel prototype adapter to develop your own flatpanel adapter Including cables set. |
| COM-Express-carrierboard-Socket-5 | 400007 | Connector for COM-Express carrier boards, height 5mm, packing unit 4 pieces |
| COM-Express-carrierboard-Socket-8 | 400004 | Connector for COM-Express carrier boards, height 8mm, packing unit 4 pieces |

Данный компонент на территории Российской Федерации

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9