

conga-BAF

High graphics performance with low power consumption

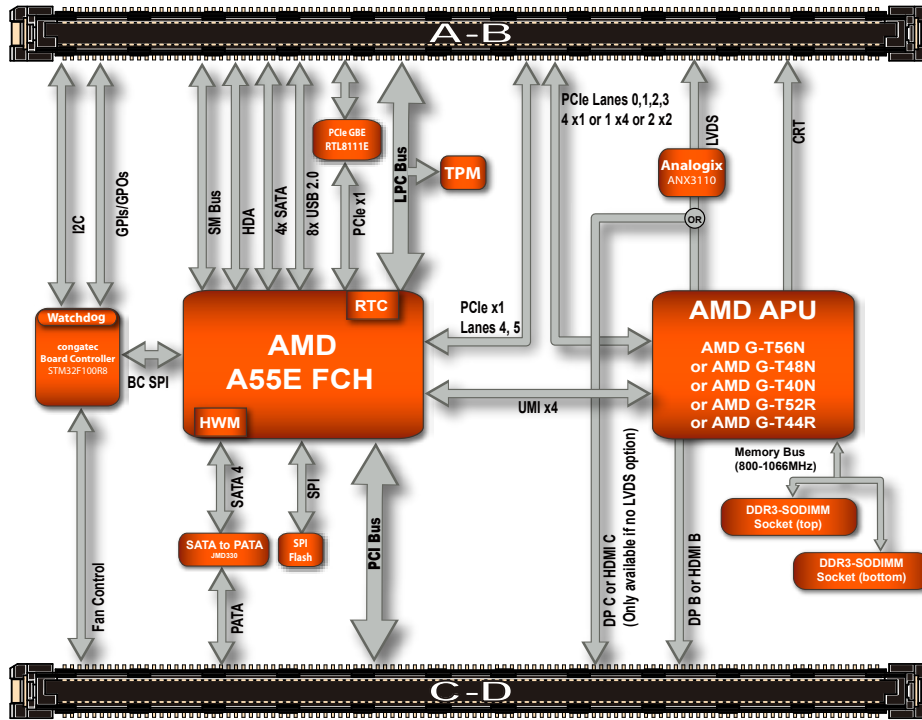


- Based on AMD Embedded G-Series Processors
- Best price/performance ratio
- High performance graphics

COM  **Express**[®]

Formfactor	COM Express™ Basic (95 x 125 mm) Type II Connector Layout																									
CPU	<p>AMD Embedded G-Series Processors</p> <table border="1"> <tr> <td>AMD G-T56N</td> <td>1.6 GHz</td> <td>Dual Core</td> <td>cache 512 kB x2</td> <td>18W</td> </tr> <tr> <td>AMD G-T40N</td> <td>1.0 GHz</td> <td>Dual Core</td> <td>cache 512 kB x2</td> <td>9W</td> </tr> <tr> <td>AMD G-T44R</td> <td>1.2 GHz</td> <td>Single Core</td> <td>cache 512 kB</td> <td>9W</td> </tr> <tr> <td>AMD G-T40R</td> <td>1.0 GHz</td> <td>Single Core</td> <td>L2 cache 512 kB</td> <td>5.5W</td> </tr> <tr> <td>AMD G-T40E</td> <td>1.0 GHz</td> <td>Dual Core</td> <td>L2 cache 512 kB x2</td> <td>6.4W</td> </tr> </table>	AMD G-T56N	1.6 GHz	Dual Core	cache 512 kB x2	18W	AMD G-T40N	1.0 GHz	Dual Core	cache 512 kB x2	9W	AMD G-T44R	1.2 GHz	Single Core	cache 512 kB	9W	AMD G-T40R	1.0 GHz	Single Core	L2 cache 512 kB	5.5W	AMD G-T40E	1.0 GHz	Dual Core	L2 cache 512 kB x2	6.4W
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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 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-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 Compact 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")																									

conga-BAF | Block diagram



conga-BAF | Order Information

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 passive cooling solution for module conga-BAF. All standoffs are with 2.7mm bore hole
conga-BAF/HSP-T	041021	Standard heatspreader for COM Express Basic module conga-BAF. All standoffs are M2.5mm thread
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-1066 (1GB)	068750	DDR3 SODIMM memory module with 1066MT/s and 1GB RAM
Accessories		
conga-CEVAL	065749	Evaluation Carrier Board for COM Express Type 2 modules
conga-Cdebug	047854	COM-Express debugging platform. Including cable for COM PS/2 and VGA.
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 to convert the chipset graphic ports Port-B Port-C and Port-D to the HDMI or DisplayPort Interface
conga-FPA2	047250	Flatpanel prototype adapter to develop your own flatpanel adapter Including cables set.
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

Mouser Electronics

Authorized Distributor

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[conga-BAF/T52R](#) [conga-BAF/T56N](#) [conga-BAF/CSP-B](#) [conga-BAF/CSA-B](#)