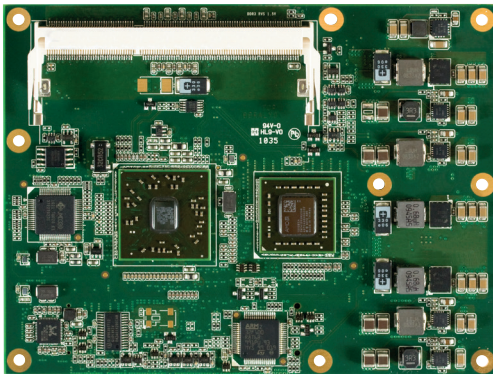


# HIGH GRAPHICS PERFORMANCE WITH LOW POWER CONSUMPTION

## conga-BAF

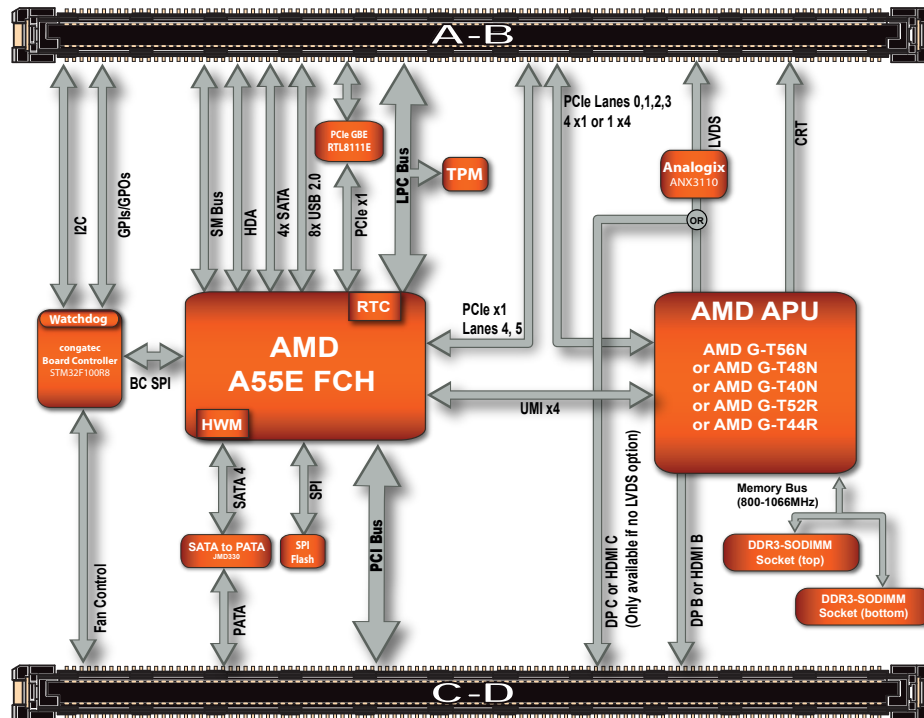


- Based on AMD Embedded G-Series Processors
- Best price/performance ratio
- High performance graphics



Formfactor	COM Express™ Basic   (95 x 125 mm)   Type II Connector Layout				
CPU	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
	AMD Embedded G-Series Processors				
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
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-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 4k	500030	The conga-DP/HDMI adapter 4k is used for evaluation of the DP/HDMI graphics interface of x86 Qseven and COM Express modules in combination with the congatec evaluation carrier boards conga-QEVAL and conga-TEVAL. It supports full 4k display resolution.
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

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