

# ETX<sup>®</sup> Module

## High graphics performance with low power consumption

### conga-EAF

Based on AMD Embedded G-Series Processors

Best price/performance ratio

High performance graphics

# ETX<sup>®</sup>



AMD Fusion  
FAMILY OF APUS  
EMBEDDED TECHNOLOGY

<b>Formfactor</b>	<b>ETX<sup>®</sup> Spec 3.02</b>
<b>CPU</b>	AMD Embedded G-Series Processors AMD G-T56N 1.6 GHz Dual Core (L2 cache 512kB x2, 18 W) AMD G-T40N 1.0 GHz Dual Core (L2 cache 512kB x2, 9W) AMD G-T40R 1.0 GHz Single Core (L2 cache 512kB, 5.5 W) AMD G-T40E 1.0 GHz Dual Core (L2 cache 512kB x2, 6.5 W) AMD G-T16R 615 MHz Single Core (L2 cache 512kB, 4.5 W)
<b>DRAM</b>	Single channel up to one 4 GB DDR3 SO-DIMM memory (up to 1066 MHz)
<b>Chipset</b>	AMD A55E Controller Hub
<b>Ethernet</b>	10/100M Fast Ethernet, Realtek RTL8105E
<b>I/O Interfaces</b>	2x Serial ATA <sup>®</sup> , 2x EIDE (up to UDMA-66/100), 4x USB 2.0, PCI Bus (Rev. 2.3), ISA Bus, I2C (Fast Mode, 400 kHz, Multi Master), Floppy, LPT, 2x COM, PS/2
<b>Sound</b>	High Definition Audio Interface and Analog MIC, Line In, Line Out by on-module HDA codec
<b>Graphics</b>	Integrated High Performance Video, DirectX <sup>®</sup> 11 graphics with UVD 3.0, Integrated VGA DAC, Dual Simultaneous Display Support, no PEG support
<b>LVDS</b>	2x24 Bit, 800x600 to 1920x1200@60Hz; VESA standard or JEDIA data mapping; Automatic Panel Detection via EDID/EPI
<b>CRT</b>	400 MHz RAMDAC, resolutions up to 2560x1600 - 18W APU, 1920x1200 - 9W APU
<b>DisplayPort</b>	1x DisplayPort 1.1a shared with HDMI port, resolutions up to 2560x1600 - 18W APU, 1920x1200 - 9W APU
<b>HDMI or DVI</b>	1x HDMI 1.3 Port, shared with DisplayPort, resolutions up to 1920x1080 / 1920x1200 for DVI mode
<b>congatec Board Controller</b>	Multi Stage Watchdog, non-volatile User Data Storage, Manufacturing and Board Information, Board Statistics, BIOS Setup Data, Backup, I <sup>2</sup> C bus (fast mode, 400 kHz, multi-master), Power Loss Control
<b>Embedded BIOS Features</b>	AMI-Aptio UEFI BIOS with congatec Embedded BIOS features
<b>Security</b>	The conga-EAF 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.
<b>Power Management</b>	ACPI 3.0 with battery support
<b>Operating Systems</b>	Microsoft <sup>®</sup> Windows8, Microsoft <sup>®</sup> Windows7, Microsoft <sup>®</sup> Windows XP, Microsoft <sup>®</sup> Windows <sup>®</sup> embedded Standard, Microsoft <sup>®</sup> Windows CE 6.0, Windows Embedded Compact 7, Linux
<b>Power Consumption</b>	Typ. application: 9 .. 18 W., see manual for full details, CMOS Battery Backup
<b>Temperature</b>	Operating: 0 .. +60°C Storage: -20 .. +80°C
<b>Humidity</b>	Operating: 10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond.
<b>Size</b>	95 x 114 mm (3.7" x 4.5")

