

# Qseven™ Module

## High graphics performance with low power consumption

### conga-QAF

Based on AMD Embedded G-Series Processors

Best price/performance ratio

High performance graphics

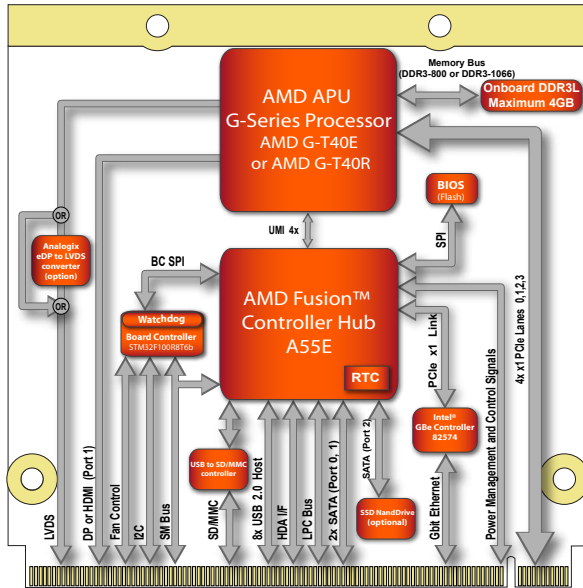
Q S E V E N



<b>Formfactor</b>	<b>Qseven Form Factor, 70 x 70 mm</b>
<b>CPU</b>	AMD Embedded G-Series Processors AMD G-T40E 1.0 GHz Dual Core (L1 cache 64KB, L2 cache 512kB x2, 6.4 W) AMD G-T40R 1.0 GHz Single Core (L1 cache 64KB, L2 cache 512kB, 5.5W)
<b>DRAM</b>	2 GByte DDR3L-1066 onboard memory, optional 4 GByte
<b>Chipset</b>	AMD A55E Controller Hub
<b>Ethernet</b>	Gigabit Ethernet and Intel® 82574
<b>I/O Interfaces</b>	4x PCI Express x1 lanes, 2x Serial ATA®, 8x USB 2.0, 1x SDIO to 8bit SD/MMC, 2x ExpressCard™, LPC Bus, I2C Bus
<b>Mass Storage</b>	Onboard SATA Solid State Drive up to 32 GByte (optional)
<b>Sound</b>	High Definition Audio Interface
<b>Graphics</b>	Integrated AMD Radeon™ HD 6250, DirectX®11 graphics with UVD 3.0, Dual Simultaneous Display Support
<b>LVDS</b>	18bit, 24bit, Dual 24bit, up to 1920x1200@60Hz;; Automatic Panel Detection via EDID/EPI
<b>Digital Display</b>	DisplayPort 1.1a or HDMI 1.3 port, resolutions up to 1920x1200@60Hz
<b>congatec Board Controller</b>	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
<b>Embedded BIOS Features</b>	AMI-Aptio 4MByte Flash BIOS with congatec Embedded BIOS features
<b>Power Management</b>	ACPI 3.0 with battery support
<b>Operating Systems</b>	Microsoft® Windows7, Microsoft® Windows XP, Microsoft® Windows® embedded Standard, Linux 2.6
<b>Power Consumption</b>	Typ. application: tbd., 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>	70 x 70 mm (2.76" x 2.76")

# Block Diagram conga-QAF

# Order Information conga-QAF



Article	PN	Description
conga-QAF/T40R	015300	AMD Single Core Processor T40R with 1.0GHz
conga-QAF/T40E	015301	AMD Dual Core Processor T40E with 1.0GHz

Engineering Tools / Accessories for Qseven		
conga-QEVAL	007001	Evaluation platform for Qseven
conga-QKIT	077455	Starterkit for Qseven including conga-QEVAL, conga-LDVI/EPI, conga-FPA1, Dual DVI-D ADD2 Card, ATX power supply...
Qseven Mobility Kit	077460	Complete ready-to-use starter-kit for mobile applications
conga-Mini Carrier Board	020710	Qseven mini carrier board for mobile applications.
conga-Mini Carrier cable kit	400015	Cable Kit for Qseven mini carrier board. Consisting of: 4x USB adapter cable, 1x LVDS display cable, 1x Feature connector cable, 1x HDMI to DVI adapter cable.
Qseven MXM carrier board connector	400012	Socket for Qseven Carrier Boards, Foxconn PN:AS0B321-578N-7F, standard type, SMT, lead free, 230 positions, 0.50mm pitch, 7.8mm height. 1 pcs
conga-LDVI/EPI	011115	LVDS to DVI converter board for digital flat panels with onboard EEPROM
conga-HDMI/DisplayPort Adapter	500014	HDMI/DisplayPort Adapter converts graphic ports Port-B, Port-C (Port-D) to the HDMI or DP interface (PCI Express x16 edge)