

# conga-QA

Module for ultra mobile applications

Lowest power consumption

Fast serial differential interfaces for high data bandwidth

# Ultra Mobile

## Ultra compact Qseven™ module based on Intel® Atom™ Processor Z5xx

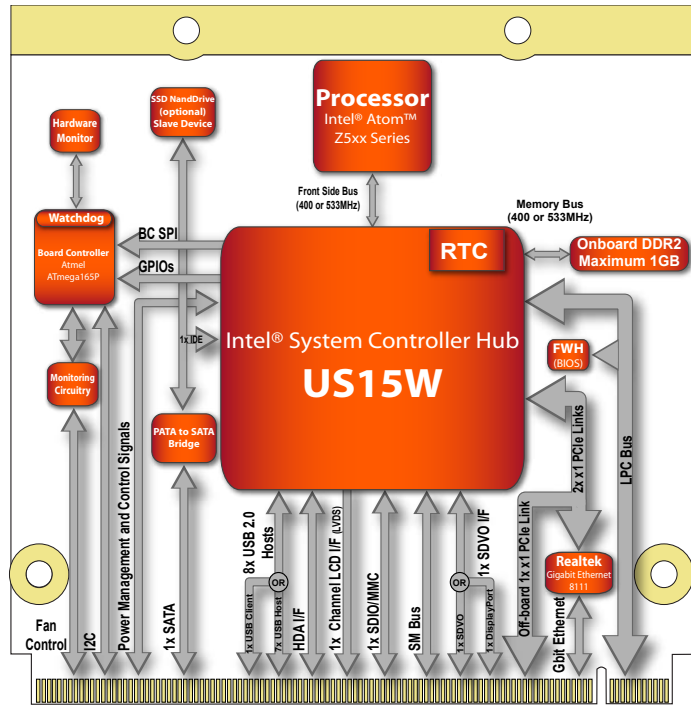
Formfactor	Qseven Form Factor, 70x70 mm <sup>2</sup>
<b>CPU</b>	Intel® Atom™ processor Z530 1.6 GHz, 533 MHz FSB and memory bus speed, 512k L2 cache, 45 nm, with Hyper-Threading Technology Intel® Atom™ processor Z510 1.1 GHz, 400 MHz FSB and memory bus speed, 512k L2 cache, 45 nm
<b>DRAM</b>	Up to 1 GByte on-board DDR2 memory with 400/533 MT/s
<b>Chipset</b>	Intel® SCH US15W
<b>Ethernet</b>	Gigabit Ethernet Realtek RTL8111
<b>I/O Interfaces</b>	8x USB 2.0, 1x SATA, 1x SDIO, 1x PCIe, I <sup>2</sup> C Bus, 1x USB client, LPC bus
<b>Mass Storage</b>	On-board ATA Solid State Drive up to 4 GByte (optional)
<b>Sound</b>	Intel® High Definition Audio (Intel® HD Audio)
<b>Graphics</b>	Intel® Graphics Media Accelerator 500 (Intel® GMA 500), up to 256 MByte frame buffer supporting Direct X 9.0E and Open GL 2.0
<b>Video Decode Acceleration</b>	Full hardware acceleration for MPEG2, H.264, WMV9 and VC1
<b>Motion Video Support</b>	Single channel 112MHz LVDS transmitter, support for flat panels with 1x18 and 1x24 bit data mapping up to resolutions of 1366x768 pixel Single channel SDVO interface, supports resolutions up to 1280x1024 pixel Dual independent display support
<b>congatec Board Controller</b>	Multi Stage Watchdog, non-volatile User Data Storage, Manufacturing and Board information, Board Statistics, I <sup>2</sup> C bus (fast mode, 400 kHz, multi-master), Power Loss Control
<b>Embedded BIOS Features</b>	OEM Logo, OEM CMOS Defaults, LCD Control, Display Auto Detection, Backlight Control, Flash Update, based on AMIBIOS®
<b>Power Management</b>	ACPI 3.0 compliant, Smart Battery Management
<b>Operating Systems</b>	Windows® XP, Windows® XP embedded, Windows® CE 6.0, LINUX, QNX
<b>Power Consumption</b>	Typ. application ~5 Watt @ 5V
<b>Temperature</b>	Operating: 0 to +60°C Storage: -20 to +80°C
<b>Humidity</b>	Operating: 10 to 90% r. H. non cond. Storage: 5 to 95% r. H. non cond.
<b>Size</b>	70 x 70 mm <sup>2</sup> (2¾" x 2¾")



Original size (70x70 mm<sup>2</sup>, 2¾"x2¾")



## Block Diagramm conga-QA



## Order Information conga-QA

Article	PN	Description
conga-QA/Z510-1G	015001	Intel Atom Z510 and Intel System controller Hub US15W CPU with 1.1 GHz, 512kb L2-Cache, 400MHz FSB and 1.0 GB DDR2 memory, onboard 2.0 GB commercial SSD (MLC) and SATA
conga-QA/Z510-1G SSD2	015021	Intel Atom Z510 and Intel System controller Hub US15W CPU with 1.1GHz, 512kb L2-Cache, 400MHz FSB. 1.0GB DDR2 memory and onboard 2.0 GB commercial (MLC) SSD. No SATA.
conga-QA/Z510-1G SATA	015011	Intel Atom Z510 and Intel System controller Hub US15W CPU with 1.1GHz, 512kb L2-Cache, 400MHz FSB. 1.0GB DDR2 memory and SATA.No SSD-Flash onboard.
conga-QA/Z530-1G	015002	Intel Atom Z530 and Intel System controller Hub US15W CPU with 1.6GHz, 512kb L2-Cache, 533MHz FSB. 1.0GB DDR2 memory, onboard 2.0GB commercial SSD (MLC) and SATA.
conga-QA/Z530-1G SSD2	015022	Intel Atom Z530 and Intel System controller Hub US15W CPU with 1.6GHz, 512kb L2-Cache, 533MHz FSB. 1.0GB DDR2 memory and onboard 2.0 GB commercial (MLC) SSD. No SATA.
conga-QA/Z530-1G SATA	015012	Intel Atom Z530 and Intel System controller Hub US15W CPU with 1.6GHz, 512kb L2-Cache, 533MHz FSB. 1.0GB DDR2 memory and SATA.No SSD-Flash onboard.
conga-QA/Z530-1G SSD4/SATA	015005	Intel Atom Z530 and Intel System controller Hub US15W CPU with 1.6GHz, 512kb L2-Cache, 533MHz FSB. 1.0GB DDR2 memory, onboard 4.0GB commercial SSD (MLC) and SATA.
conga-QA/HSP-B	042745	Heatspreader for Qseven-Module conga-QA, Standoff with 2.7mm bore hole

### 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-S78N-7F, standard type, SMT, lead free, 230 positions, 0.50mm pitch, 7.8mm height. 1pcs
conga-LDVI/EPI	011115	<b>LVDS to DVI converter board for digital flat panels with onboard EPROM</b>
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.