

Qseven™ Module Ultra Mobil

conga-QA

Module for ultra mobile applications

Lowest power consumption

Fast serial differential interfaces for high data bandwidth

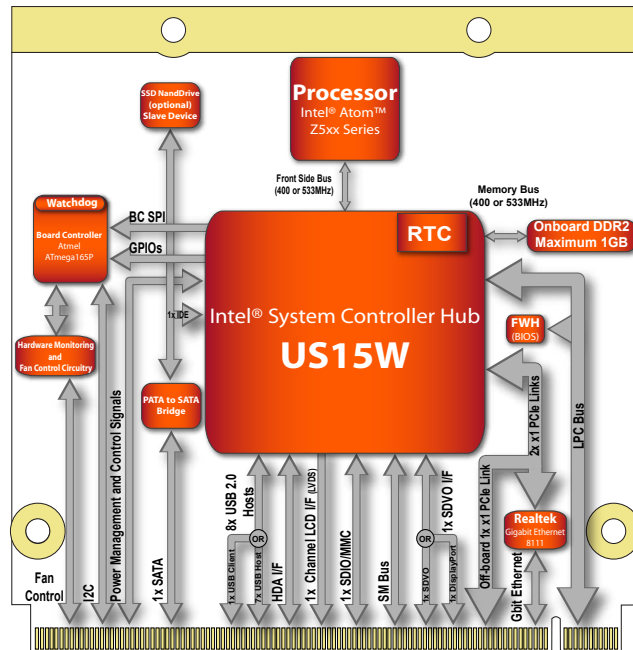
Q S E V E N



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

Formfactor	Qseven Form Factor, 70x70 mm
CPU	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
DRAM	Up to 1 GByte on-board DDR2 memory with 400/533 MT/s
Chipset	Intel® SCH US15W
Ethernet	Gigabit Ethernet Realtek RTL8111
I/O Interfaces	8x USB 2.0, 1x SATA, 1x SDIO, 1x PCIe, I²C Bus, 1x USB client, LPC bus
Mass Storage	On-board ATA Solid State Drive up to 4 GByte (optional)
Sound	Intel® High Definition Audio (Intel® HD Audio)
Graphics	Intel® Graphics Media Accelerator 500 (Intel® GMA 500), up to 256 MByte frame buffer supporting Direct X 9.0E and Open GL 2.0
Video Decode Acceleration	Full hardware acceleration for MPEG2, H.264, WMV9 and VC1
Motion Video Support	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
congatec Board Controller	Multi Stage Watchdog, non-volatile User Data Storage, Manufacturing and Board information, Board Statistics, I²C bus (fast mode, 400 kHz, multi-master), Power Loss Control
Embedded BIOS Features	OEM Logo, OEM CMOS Defaults, LCD Control, Display Auto Detection, Backlight Control, Flash Update, based on AMIBIOS®
Power Management	ACPI 3.0 compliant, Smart Battery Management
Operating Systems	Windows® XP, Windows® XP embedded, Windows® CE 6.0, LINUX, QNX
Power Consumption	Typ. application ~5 Watt @ 5V
Temperature	Operating: 0 to +60°C Storage: -20 to +80°C
Humidity	Operating: 10 to 90% r. H. non cond. Storage: 5 to 95% r. H. non cond.
Size	70 x 70 mm (2¾" x 2¾")

Block Diagram conga-QA



Order Information conga-QA

Article	PN	CPU-Z510	CPU-Z530	2GB SSD*	4GB SSD*	SATA	SSD
conga-QA/Z510-1G	015001	✓		✓		✓	✓
conga-QA/Z510-1G SSD2	015021	✓		✓			✓
conga-QA/Z510-1G SATA	015011	✓				✓	
conga-QA/Z530-1G	015002		✓			✓	✓
conga-QA/Z530-1G SSD2	015022		✓				✓
conga-QA/Z530-1G SATA	015012		✓			✓	
conga-QA/Z530-1G SSD4/SATA	015005		✓		✓	✓	✓

*commercial version

Article	PN	Description
conga-QA-HSP-B	042745	Heatspreader, Standoff with 2.7mm bore hole
conga-QA-HSP-T	042740	Heatspreader, Standoff with 2.5mm threat
conga-QA-CSP-B	042735	Standard passive cooling solution, surface orange anodized with 1.8mm fins, bore hole bracket, threaded standoffs.

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	LVDS to DVI converter board for digital flat panels with onboard EEPROM
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.

Mouser Electronics

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