

Qseven™ Module Industrial Temperature

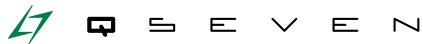
conga-QA6

Extended Temperature Range

-40° .. +85°C

Intel® 3D Graphics

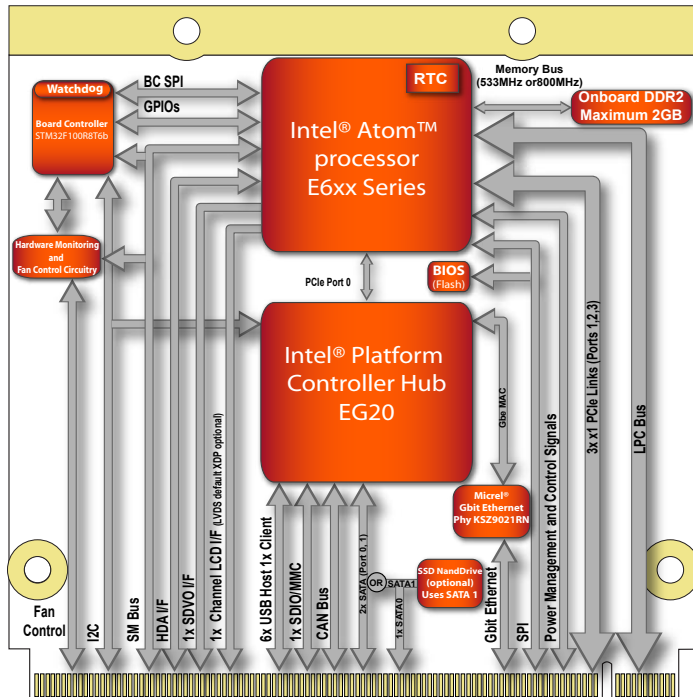
CAN Bus



Formfactor	Qseven Form Factor, 70x70 mm
CPU	Intel® Atom™ processor E6xx series with 1,6 GHz, 1,3 GHz, 1,0 GHz and 600 MHz Intel® Atom™ E680T / E680, 1.6 GHz (45 nm process, 512kb L2 cache, TDP 3.9 W) Intel® Atom™ E660T / E660, 1.3 GHz (45 nm process, 512kb L2 cache, TDP 3.3W) Intel® Atom™ E640T / E640, 1.0 GHz (45 nm process, 512kb L2 cache, TDP 3.3W) Intel® Atom™ E620T / E620, 600 MHz (45 nm process, 512kb L2 cache, TDP 2.7W) Integrated dual channel memory controller, up to 17.1 GByte/sec. memory bandwidth Integrated Intel® HD Graphics with dynamic frequency up to 667 MH
DRAM	Up to 2 GByte onboard DDR2 memory with 667/800 MT/s
Chipset	Intel® Platform Controller Hub EG20
Ethernet	Micrel® Gbit Ethernet Phy KSZ9021RN
I/O Interfaces	6x USB 2.0, 2x SATA, 1x SDIO, 3x PCIe, I²C Bus, 1x USB client, LPC bus, CAN Bus
Mass Storage	Onboard SATA Solid State Drive up to 32 GByte (optional)
Sound	Intel® High Definition Audio (Intel® HD Audio)
Graphics	Intel® Graphics Core with 2D and 3D hardware Accelerator and dual independent display support.
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 1280x768 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 AMI Aptio UEFI
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 Range	Operating: -40 to +85°C Storage: -40 to +85°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 Diagramm conga-QA6

Order Information conga-QA6



Article	PN	Description
conga-QA6/E680T-1G	015038	Intel® Atom™ E680T processor with 1.6GHz, 512kB L2 cache. Industrial grade temperature range from -40°C to 85°C
conga-QA6/E660T-1G	015035	Intel® Atom™ E660T processor with 1.3GHz, 512kB L2 cache. Industrial grade temperature range from -40°C to 85°C
conga-QA6/E640T-1G	015036	Intel® Atom™ E640T processor with 1.0GHz, 512kB L2 cache. Industrial grade temperature range from -40°C to 85°C
conga-QA6/E620T-1G	015037	Intel® Atom™ E620T processor with 600MHz, 512kB L2 cache. Industrial grade temperature range from -40°C to 85°C
conga-QA6/E680-1G	015033	Intel® Atom™ E680 processor with 1.6GHz, 512kB L2 cache
conga-QA6/E660-1G	015030	Intel® Atom™ E660 processor with 1.3GHz, 512kB L2 cache
conga-QA6/E640-1G	015031	Intel® Atom™ E640 processor with 1.0GHz, 512kB L2 cache
conga-QA6/E620-1G	015032	Intel® Atom™ E620 processor with 600MHz, 512kB L2 cache

Article	PN	Description
conga-QA6-HSP-B	042745	Heatspreader, Standoff with 2.7mm bore hole
conga-QA6-HSP-T	042740	Heatspreader, Standoff with 2.5mm throat
conga-QA6-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. 1 pcs
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.