High Performance COM Express®

conga-BS67

Intel® Core™ 2nd Generation CPUs Extreme graphics performance

COM Express™ Type 2 module featuring DisplayPort and HDMI







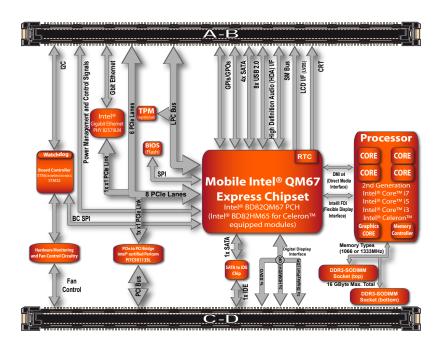


Formfactor	Formfactor COM Express™ Basic, (95 x 125 mm), Type II Connector Layout			
CPU	Intel® Core™ i7-2655LE, 2.20 GHz, (32 nm process, 4MB cache, 1333 MHz, TDP 25 W) Intel® Core™ i7-2610UE, 1.50 GHz, (32 nm process, 4MB cache, TDP 17 W) Intel® Core™ i3-2340UE, 1.30 GHz (32nm process, 3MB cache, TDP 17W) Intel® Celeron® Processor 847E, 1.1GHz (32nm process, 2 MB cache, TDP 17W) Intel® Celeron® Processor 827E, 1.4 GHz (32nm process, 1.5 MB cache, TDP 17W)			
	Integrated dual channel memory controller, up to 25,6 GByte/sec. memory bandwidth Integrated Intel® HD Graphics with dynamic frequency up to 1100 MHz, Intel® Clear Video HD Technology			
DRAM	2 Sockets, SO-DIMM DDR3 1600 MHz, up to 16 GByte			
Chipset	Mobile Intel® 6 Series Chipset, Intel® QM67/HM65 Platform Controller Hub			
Ethernet	Gigabit Ethernet, Intel® Ethernet PHY optional			
I/O Interfaces	6x PCI Express™ lanes, 4x Serial ATA® (AHCI) with RAID support, 1x EIDE (UDMA-66/100) optional, 8x USB 2.0 (EHCI), PCI Bus 33 MHz Rev. 2.3, LPC bus, I²C bus (fast mode, 400 kHz, multi-master)			
Sound	Digital High Definition Audio Interface with support for multiple audio codecs			
Graphics	Processor integrated Mobile Intel® 6 Series HD graphics, OpenGL 3.0 and DirectX 10.1 support, two independent pipelines for full dual view support, High performance hardware MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) support Blu-ray support @ 40 Mbit/s, hardware motion compensation (using HDMI 1.4 with 3D), no PEG support			
LVDS	Dual channel LVDS transmitter, supports flat panels 2x24 Bit interface, VESA mappings, resolutions up to 1920x1200, Automatic Panel, Detection via EDID/EPI			
Display Port (DP)	3x DisplayPorts 1.1, max. resolution 2560x1600			
HDMI or DVI	3x ports shared with Display Port			
CRT Interface	350 MHz RAMDAC, resolutions up to QXGA (2048x1536)			
SDVO	1 x Intel compliant SDVO ports with 200MPixel/sec. Supports external DVI, TV and LVDS transmitter			
congatec Board Controller	Multi Stage Watchdog, non-volatile User Data Storage, Manufacturing and Board Information, Board Statistics, BIOS Setup Data Backup, I ² C bus (fast mode, 400 kHz, multi-master), Power Loss Control			
Embedded BIOS Features	AMI Aptio® UEFI 2.x firmware, 8 MByte serial SPI firmware flash			
Security	The conga-BM67 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.			
Power Management	ACPI 3.0 with battery support			
Operating Systems	Microsoff® Windows7 (embedded), Microsoff® Windows XP (embedded), Linux			
Power Consumption	Typ. application: Processor TDP: 17 25 W, see manual for full details			
Temperature:	Operating: 0 +60°C Storage: -20 +80°C			
Humidity Operating:	10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond.			
Size	95 x 125 mm (3.74" x 4.92")			



Block Diagram conga-BS67

Order Information conga-BS67



Article	PN	Description
conga-BS67/i7-2655LE	046151	Intel® Core [™] 17-2655LE dual core processor 2.2GHz, 4MByte L2 cache and 1600MT/s dual channel DDR3 memory interface
conga-BS67/i7-2610UE	046152	Intel® Core™ 17-2610UE dual core processor 1.5GHz, 3MByte L2 cache and 1333MT/s dual channel DDR3 memory interface
conga-BS67/i3-2340UE	046153	Intel® Core™ i3-2340UE dual core processor 1.3GHz, 3MByte L2 cache and 1333MT/s dual channel DDR3 memory interface
conga-BS67/847E	046154	Intel® Celeron™ 847E dual core processor 1.1GHz, 2MByte L2 cache and 1333MT/s dual channel DDR3 memory interface
conga-BS67/827E	046155	Intel® Celeron™ 827E single core processor 1.4GHz, 1.5MByte L3 cache and 1333MT/s dual channel DDR3 memory interface
conga-BS57/HSP-HP-B	040120	Standard heatspreader with integrated heat pipes. All stand-offs are with 2.7mm bore hole
conga-BS57/HSP-HP-T	040121	Standard heatspreader with integrated heat pipes. All stand-offs are M2.5mm threaded
conga-BS57/CSP-HP-B	046026	Standard passive cooling solution with integrated heat pipes, 15mm fins and 20mm overall heat sink height. All stand-offs are with 2.7mm bore hole
conga-BS57/CSP-HP-T	046027	Standard passive cooling solution with integrated heat pipes, 15mm fins and 20mm overall heat sink height. All stand-offs are M2.5mm threaded
conga-BS57/CSA-HP-B	046028	Standard active cooling solution with integrated heat pipes, 15mm fins and 20mm overall heat sink height and integrated 12V fan. All stand-offs are with 2.7mm bore hole
conga-BS57/CSA-HP-T	046029	Standard active cooling solution with integrated heat pipes, 15mm fins and 20mm overall heat sink height and integrated 12V fan. All stand-offs are M2.5mm threaded
conga-BS57/TSS	040122	Thermal Stack Set (TSS).
DDR3-SODIMM-1066 (1GB)	068750	DDR3-SODIMM memory module 1GByte RAM (1066 MT/s)
DDR3-SODIMM-1066 (2GB)	068760	DDR3-SODIMM memory module 2GByte RAM (1066 MT/s)
DDR3-SODIMM-1066 (4GB)	068765	DDR3-SODIMM memory module 4GByte RAM (1066 MT/s)

Engineering Tools / Accessories for COM Express®					
conga-CEVAL	065749	Evaluation carrier board for COM-Express-modules			
conga-Cdebug	047854	COM-Express debugging platform. Including cable for COM, PS/2 and VGA.			
conga-CKIT	064714	COM-Express-Starterkit, incl. conga-CEVAL, conga-CDEBUG, conga-FPA1 (PN: 024241), Dual DVI-D ADD2 card, Power supply, USB-Stick, Without COM Express-module			
conga-SBM ² C-module	014141	SMART Battery Manager Module for COM Express			
conga-SBM ² C-kit	029874	Starterkit to evaluate SBM-Features for COM Express with SMART-Battery Manager Module and cable set			
conga-SBM ² C Licence and Design Kit	025478	SMART Battery Manager Module Design Kit including licence agreement for costumer integration, Hardware design files (Schematics, Bill of Material), Battery Manager Firmware (incl. commented source code), AVR-Programming Tool AT90 JTAG ICE MKII			
conga-LDVI/EPI	011115	IVDS to DVI converter board for digital flat panels with onboard EEPROM			
conga-HDMI/Display Port adapter	500014	The conga-HDMI/DisplayPort adapter is used to convert the chipset graphic ports Port-B, Port-C and Port-D to the HDMI or DisplayPort Interface			
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.			
Dual DVI-D ADD2 Card	013226	ADD2 display adapter card with dual independent DVI-D output. Suitable for all Intel based platforms that support Serial Digital Display Outputs (SDVO) on the standard, x16 PCI Express Graphics (PEG) port.			
conga-FPA2	047250	Flatpanel prototype adapter to develop your own flatpanel adapter including cables set.			





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