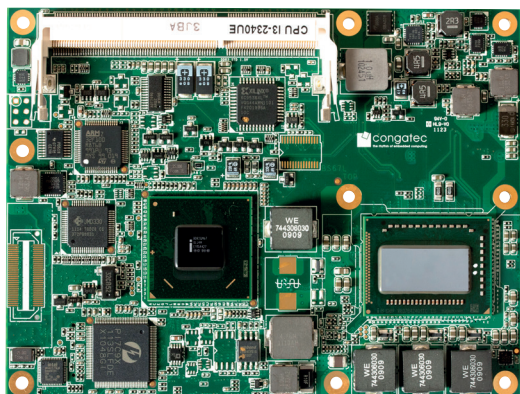


# MAXIMUM COMPUTING PERFORMANCE

## conga-BS67

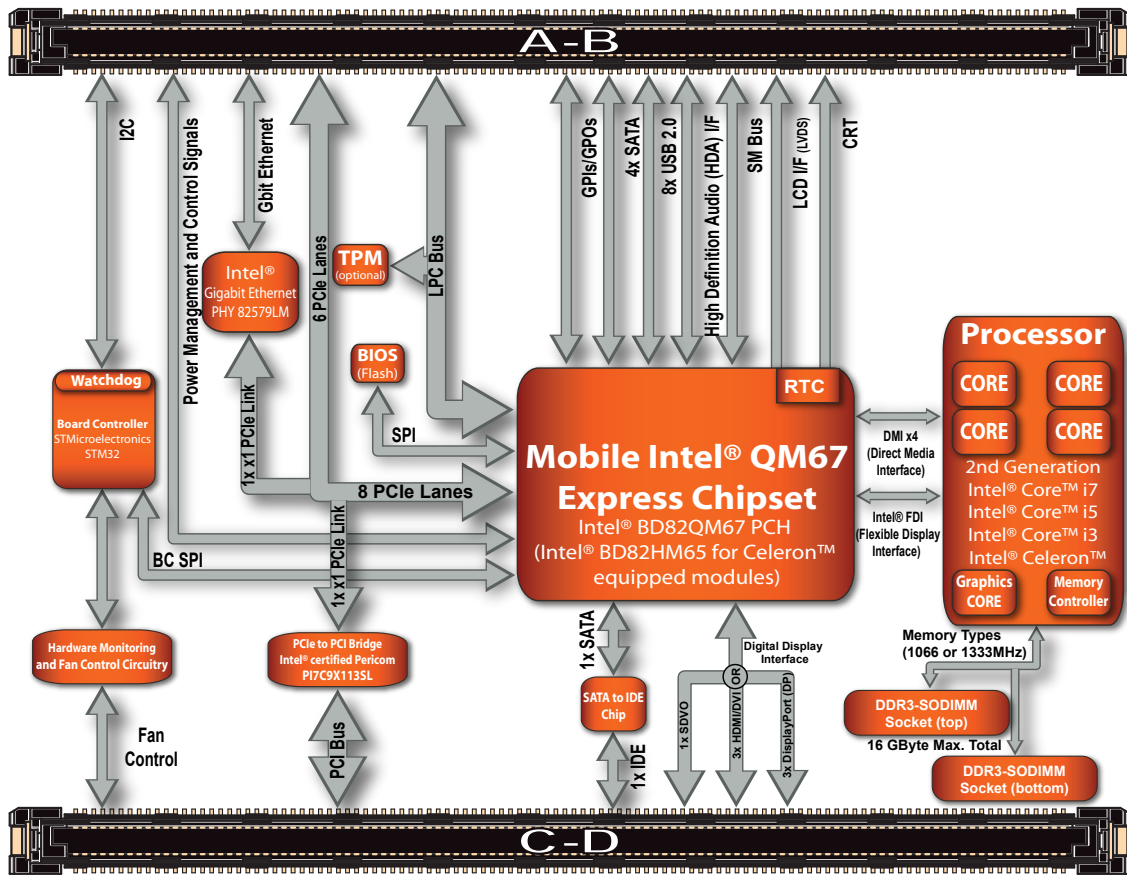


- Intel® Core™ 2nd Generation CPUs
- Extreme graphics performance
- COM Express™ Type 2 module featuring DisplayPort and HDMI

**COM**  **Express®**

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	32 nm process	3MB cache		TDP 17 W
	Intel® Celeron® Processor 847E	1.1GHz	32 nm process	2MB cache		TDP 17 W
	Intel® Celeron® Processor 827E	1.4 GHz	32 nm process	1.5 MB cache		TDP 17 W
	Intel® Celeron® Processor 807UE	1.0GHz	32 nm process	1MB cache		TDP 10W
	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 1333 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 (eDP optional)	Dual channel LVDS transmitter   supports flat panels 2x24 Bit interface   VESA mappings   resolutions up to 1920x1200   Automatic Panel Detection via EDID/EPI					
DisplayPort	3x DisplayPorts 1.1   max. resolution 2560x1600					
HDMI	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 I²C 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	Microsoft® Windows 8   Microsoft® Windows 7   Microsoft® Windows® embedded Standard   Microsoft® Windows XP   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")					

# conga-BS67 | Block diagram



# conga-BS67 | Order Information

Article	PN	Description
conga-BS67/i7-2655LE	046151	Intel® Core™ i7-2655LE dual core processor with 2.2GHz   4MB L3 cache and 1333MT/s dual channel DDR3 memory interface
conga-BS67/i7-2610UE	046152	Intel® Core™ i7-2610UE dual core processor with 1.5GHz   3MB L3 cache and 1333MT/s dual channel DDR3 memory interface
conga-BS67/i3-2340UE	046153	Intel® Core™ i3-2340UE dual core processor with 1.3GHz   3MB L3 cache and 1333MT/s dual channel DDR3 memory interface
conga-BS67/847E	046154	Intel® Celeron® 847E dual core processor with 1.1GHz   2MB L3 cache and 1066MT/s dual channel DDR3 memory interface for up to 4GB
conga-BS67/827E	046155	Intel® Celeron® 827E single core processor with 1.4GHz   1.5MB L3 cache and 1066MT/s dual channel DDR3 memory interface for up to 4GB
conga-BS67/807UE	046156	Intel® Celeron® 807E single core processor with 1.0GHz   1MB L3 cache and 1066MT/s dual channel DDR3 memory interface for up to 4GB
conga-BS67/HSP-HP-B	046170	Standard heatspreader for high performance COM Express modules conga-BS67   BS77 and BP77 with integrated heat pipes. All standoffs are with 2.7mm bore hole
conga-BS67/HSP-HP-T	046171	Standard heatspreader for high performance COM Express modules conga-BS67   BS77 and BP77 with integrated heat pipes. All standoffs are M2.5mm thread
conga-BS67/CSP-HP-B	046172	Standard passive cooling solution for high performance COM Express modules conga-BS67   BS77 and BP77 with integrated heat pipes   15mm silver fins and 20mm overall heat sink height. All standoffs are with 2.7mm bore hole
conga-BS67/CSP-HP-T	046173	Standard passive cooling solution for high performance COM Express modules conga-BS67   BS77 and BP77 with integrated heat pipes   15mm silver fins and 20mm overall heat sink height. All standoffs are M2.5mm thread
conga-BS67/CSA-HP-B	046174	Standard active cooling solution for high performance COM Express modules conga-BS67   BS77 and BP77 with integrated heat pipes 15mm silver fins   20mm overall heat sink height and integrated 12V fan. All standoffs are with 2.7mm bore hole
conga-BS67/CSA-HP-T	046175	Standard active cooling solution for high performance COM Express module conga-BS67   BS77 and BP77 with integrated heat pipes 15mm silver fins   20mm overall heat sink height and integrated 12V fan. All standoffs are M2.5mm thread
DDR3L-SODIMM-1600 (2GB)	068755	DDR3L SODIMM memory module with 1600 MT/s (PC3L-12800S) and 2GB RAM
DDR3L-SODIMM-1600 (4GB)	068756	DDR3L SODIMM memory module with 1600 MT/s (PC3L-12800S) and 4GB RAM
DDR3L-SODIMM-1600 (8GB)	068757	DDR3L SODIMM memory module with 1600 MT/s (PC3L-12800S) and 8GB RAM

## Accessories

conga-CEVAL	065749	Evaluation Carrier Board for COM Express Type 2 modules
conga-Cdebug	047854	COM-Express debugging platform. Including cable for COM   PS/2 and VGA
conga-LDVI/EPI	011115	LVDS to DVI converter board for digital flat panels with onboard EEPROM
conga-HDMI/Display Port adapter 4k	500030	The conga-DP/HDMI adapter 4k is used for evaluation of the DP/HDMI graphics interface of x86 Qseven and COM Express modules in combination with the congatec evaluation carrier boards conga-QEVAL and conga-TEVAL. It supports full 4k display resolution.
conga-FPA2	047250	Flatpanel prototype adapter to develop your own flatpanel adapter Including cables set