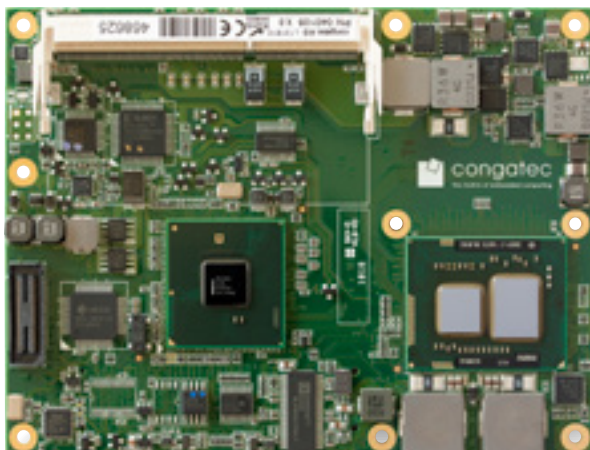


conga-BS57

Maximum Computing Performance

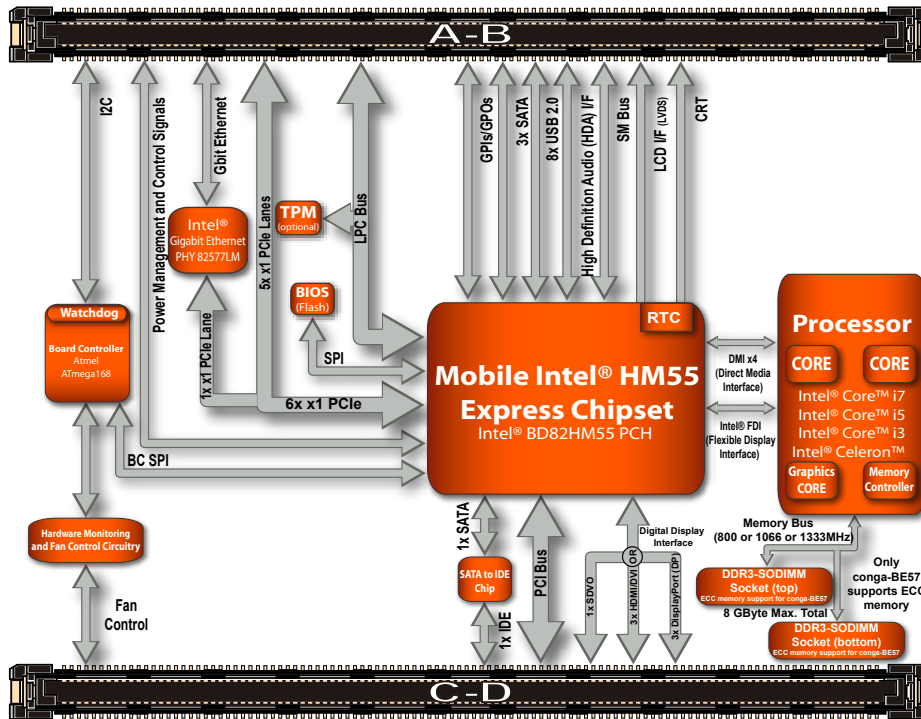


- Power-Efficient Processors
- up to Intel® Core™ i7 Processor 2.0 GHZ
- Intel® Clear Video HD Technology

COM  **Express®**

Formfactor	COM Express™ Basic (95 x 125 mm) Type II Connector Layout						
CPU	Intel® Core™ i7-620LE	2.0 GHz	32 nm process	4MB cache	1066 MHz	TDP 25 W	BGA package
	Intel® Core™ i7-620UE	1.06 GHz	32 nm process	4MB cache	800 MHz	TDP 18 W	BGA package
	Intel® Core™ i3-330E	2.13 GHz	32 nm process	3MB cache	1066 MHz	TDP 35 W	BGA package
	Intel® Celeron® U3405	1.07 GHz	32 nm process	2MB cache	1066 MHz	TDP 18 W	BGA package
	Integrated dual channel memory controller up to 17.1 GByte/sec. memory bandwidth Integrated Intel® HD Graphics with dynamic frequency up to 667 MHz Intel® Clear Video HD Technology						
DRAM	2 Sockets SO-DIMM DDR3 1333 MHz up to 8 GByte						
Chipset	Intel® 5 Series Chipset: Intel® HM55						
Ethernet	Intel® 82577LM Ethernet PHY						
I/O Interfaces	5x PCI Express™ lanes 3x Serial ATA® (AHCI) no RAID support 1x EIDE (UDMA-66/100) optional 2x ExpressCard® 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® 5 Series HD graphics OpenGL 2.1 and DirectX10 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 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						
DisplayPort	3x DisplayPorts 1.1 shared with HDMI						
HDMI	3x ports shared with DisplayPorts						
CRT Interface	350 MHz RAMDAC resolutions up to QXGA (2048x1536)						
AUX Output	Supports one SDVO port shared with HDMI and DisplayPort capable of driving a 200MP pixel rate						
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 4 MByte serial SPI firmware flash						
Security	The conga-BS57 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 XP Microsoft® Windows® embedded Standard Linux						
Power Consumption	Typ. application: tbd. see manual for full details CMOS Battery Backup						
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-BS57 | Block diagram



conga-BS57 | Order Information

Article	PN	Description
conga-BS57/i7-620LE	040100	Intel® Core™ i7-620LE processor 2.0GHz 4MB L2 cache 1066MT/s dual channel DDR3 SODIMM memory interface for up to 8GB.
conga-BS57/i7-620UE	040105	Intel® Core™ i7-620UE processor 1.06GHz 4MB L2 cache 800MT/s dual channel DDR3 SODIMM memory interface for up to 8GB.
conga-BS57/i3-330E	040106	Intel® Core™ i3-330E processor 2.13GHz 3MB L2 cache 1066MT/s dual channel DDR3 SODIMM memory interface for up to 8GB.
conga-BS57/U3405	040107	Intel® Celeron® U3405 processor 1.06 GHz (BGA) 2MB L2 cache dual channel DDR3 SODIMM memory interface for up to 8GB.
conga-BS57/HSP-HP-B	040120	Standard heatspreader for the high performance COM Express module conga-BS57 with integrated heat pipes. All standoffs are with 2.7mm bore hole
conga-BS57/HSP-HP-T	040121	Standard heatspreader for the high performance COM Express module conga-BS57 with integrated heat pipes. All standoffs are M2.5mm thread
conga-BS57/CSP-HP-B	046026	Standard passive cooling solution for the high performance COM Express module conga-BS57 with integrated heat pipes 15mm silver fins and 20mm overall heat sink height. All standoffs are with 2.7mm bore hole
conga-BS57/CSP-HP-T	046027	Standard passive cooling solution for the high performance COM Express module conga-BS57 with integrated heat pipes 15mm silver fins and 20mm overall heat sink height. All standoffs are M2.5mm thread
conga-BS57/CSA-HP-B	046028	Standard active cooling solution for the high performance COM Express module conga-BS57 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-BS57/CSA-HP-T	046029	Standard active cooling solution for the high performance COM Express module conga-BS57 with integrated heat pipes 15mm silver fins 20mm overall heat sink height and integrated 12V fan. All standoffs are M2.5mm thread
DDR3-SODIMM-1066 (1GB)	068750	DDR3 SODIMM memory module with 1066MT/s and 1GB RAM
DDR3-SODIMM-1066 (2GB)	068760	DDR3 SODIMM memory module with 1066MT/s and 2GB RAM
DDR3-SODIMM-1066 (4GB)	068765	DDR3 SODIMM memory module with 1066MT/s and 4GB 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	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
conga-FPA2	047250	Flatpanel prototype adapter to develop your own flatpanel adapter Including cables set
COM-Express-carrier-board-Socket-5	400007	Connector for COM-Express carrier boards height 5mm packing unit 4 pieces
COM-Express-carrier-board-Socket-8	400004	Connector for COM-Express carrier boards height 8mm packing unit 4 pieces

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