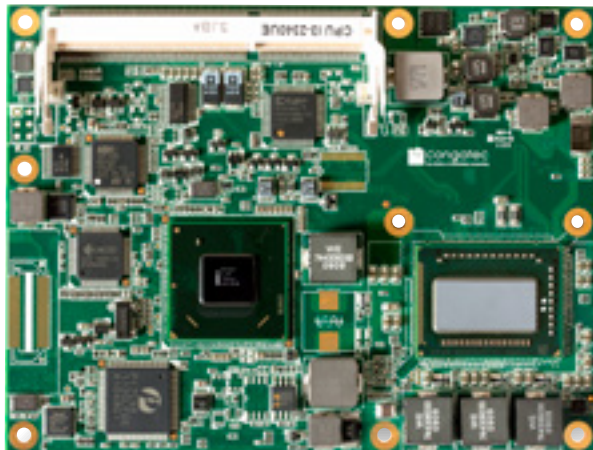


conga-BS77

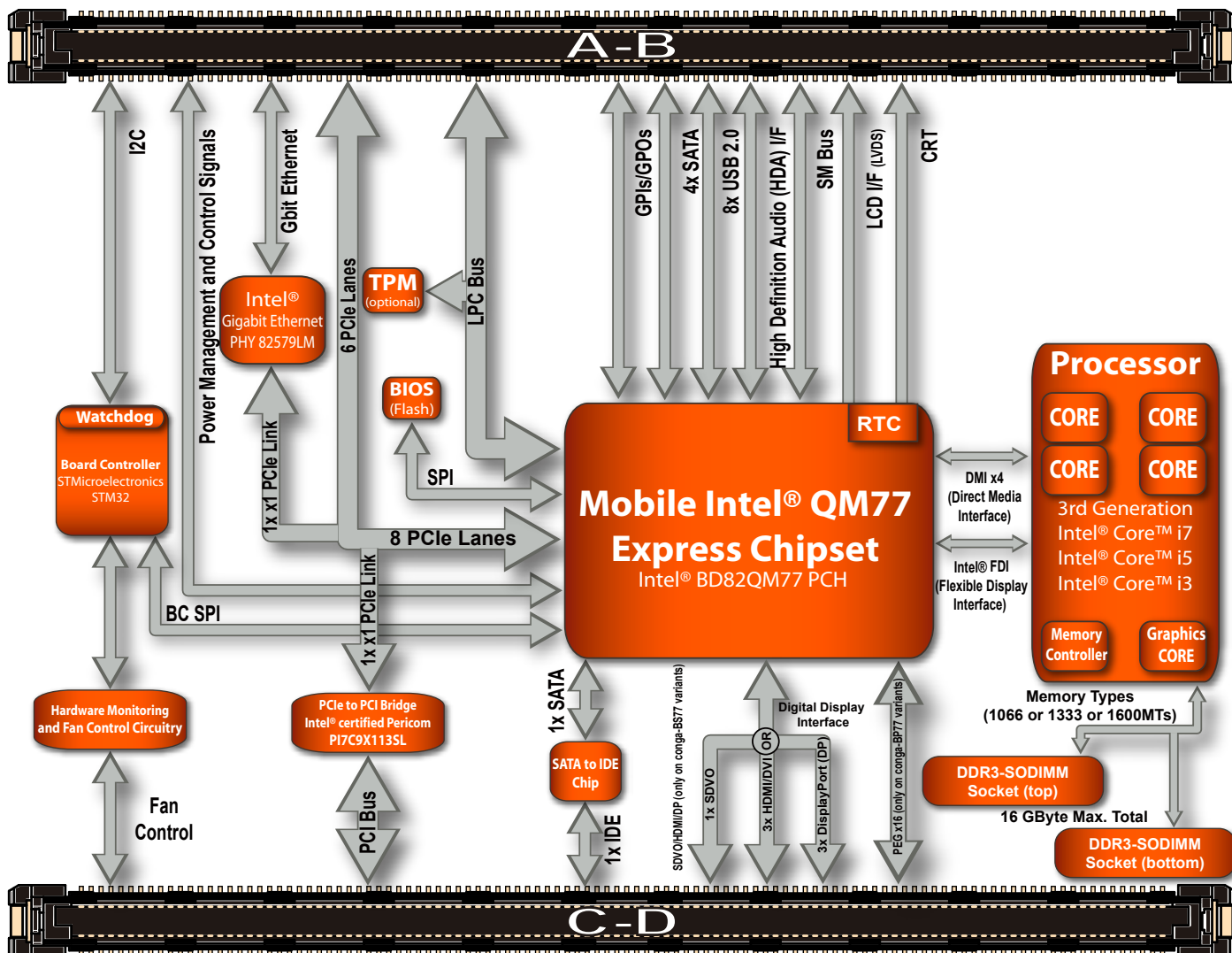


- Highest Performance COM Express Type 2
- 3rd Generation Intel® Core™ processor-based platform
- Better transcode HD-HD, HD Video Conferencing
- Improved Graphics Performance, DirectX®11

COM  **Express®**

Formfactor	COM Express™ Basic (95 x 125 mm) Type II Connector Layout			
CPU	Intel® Core™ i7-3615QE	4x 2.3 GHz	6MB L2 cache	TDP 45W
	Intel® Core™ i7-3612QE	4x 2.1 GHz	6MB L2 cache	TDP 35W
	Intel® Core™ i7-3555LE	2x 2.5 GHz	4MB L2 cache	TDP 25W
	Intel® Core™ i7-3517UE	2x 1.7 GHz	4MB L2 cache	TDP 17W
	Intel® Core™ i5-3610ME	2x 2.7 GHz	3MB L2 cache	TDP 35W
	Intel® Core™ i3-3120ME	2x 2.4 GHz	3MB L2 Cache	TDP 35W
	Intel® Core™ i3-3217UE	2x 1.6 GHz	3MB L2 Cache	TDP 17W
	Intel® Celeron® 1020E	2x 2.2 GHz	2 MB Cache	TDP 35W
	Intel® Celeron® 1047UE	2x 1.4 GHz	2 MB Cache	TDP 17W
	Intel® Celeron® 927UE	1x 1.5 GHz	1 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® 7 Series Chipset: Intel® QM77/ HM76			
Ethernet	Intel® 82579 GbE LAN Controller with AMT 8.0 support (optional)			
I/O Interfaces	6x PCI Express™ GEN 2.0 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	Intel® Flexible Display Interface (FDI) OpenGL 3.1 and DirectX11 support Three simultaneous independent displays. High performance hardware MPEG-2 decoding WMV9 (VC-1) and H.264 (AVC) support Blu-ray support @ 40 MBit/s hardware motion compensation			
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 max. resolution 2560x1600			
HDMI or DVI	3x ports shared with Display Port			
CRT Interface	340.4 MHz RAMDAC resolutions up to QXGA (2048x1536)			
SDVO	1 x Intel compliant SDVO ports with 200MPixel/sec. Supports external DVI			
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-BS77 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-BS77 | Block diagram



© 2014 congatec AG. All rights reserved.

All data is for information purposes only. Although all the information contained within this document is carefully checked, no guarantee of correctness is implied or expressed. Product names, logos, brands, and other trademarks featured or referred are the property of their respective trademark holders. These trademark holders are not affiliated with congatec AG. Rev. October 22, 2014 MR

conga-BS77 | Order Information

Article	PN	Description
conga-BS77/i7-3612QE	046601	Intel® Core™ i7-3612QE quad core processor with 2.1GHz 6MB L3 cache and 1600MT/s dual channel DDR3 memory interface
conga-BS77/i7-3555LE	046602	Intel® Core™ i7-3555LE dual core processor with 2.5GHz 4MB L3 cache and 1600MT/s dual channel DDR3 memory interface
conga-BS77/i7-3517UE	046603	Intel® Core™ i7-3517UE dual core processor with 1.7GHz 4MB L3 cache and 1600MT/s dual channel DDR3 memory interface
conga-BS77/i5-3610ME	046604	Intel® Core™ i5-3610ME dual core processor with 2.7GHz 3MB L3 cache and 1600MT/s dual channel DDR3 memory interface
conga-BS77/i3-3217UE	046605	Intel® Core™ i3-3217UE dual core processor with 1.6GHz 3MB L3 cache and 1600MT/s dual channel DDR3 memory interface
conga-BS77/i7-3615QE	046606	Intel® Core™ i7-3615QE quad core processor with 2.3GHz 6MB L3 cache and 1600MT/s dual channel DDR3 memory interface
conga-BS77/i3-3120ME	046607	Intel® Core™ i3-3120ME dual core processor with 2.4GHz 3MB L3 cache and 1600MT/s dual channel DDR3 memory interface
conga-BS77/1047UE	046608	Intel® Celeron™ 1047UE dual core processor with 1.4GHz 2MB L3 cache and 1333MT/s dual channel DDR3 memory interface
conga-BS77/927UE	046609	Intel® Celeron™ 927UE single core processor with 1.5GHz 1MB L3 cache and 1333MT/s dual channel DDR3 memory interface
conga-BS77/1020E	046610	Intel® Celeron™ 1020E dual core processor with 2.2GHz 2MB L3 cache and 1333MT/s dual channel DDR3 memory interface
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-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-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
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
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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.