

# COM Express® Basic Module

## Extreme Graphic Performance

### conga-BM67

up to Intel® Core™ i7  
processor 2.1 GHz

Intel® Clear Video HD Technology



<b>Formfactor</b>	<b>Formfactor COM Express™ Basic, (95 x 125 mm), Type II Connector Layout</b>
<b>CPU</b>	Intel® Core™ i7-2710QE (SV), 2,1 GHz (32 nm process, 6MB cache, 1333 MHz, TDP 45 W, 989 rPGA package) Intel® Core™ i5 -2510E (SV), 2,5 GHz (32 nm process, 3MB cache, 1333 MHz, TDP 35 W, 989 rPGA package)  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
<b>DRAM</b>	2 Sockets, SO-DIMM DDR3 1600 MHz, up to 16 GByte
<b>Chipset</b>	Mobile Intel® 6 Series Chipset, Intel® QM67 Platform Controller Hub
<b>Ethernet</b>	Gigabit Ethernet, Intel® Ethernet PHY with AMT support
<b>I/O Interfaces</b>	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)
<b>Sound</b>	Digital High Definition Audio Interface with support for multiple audio codecs
<b>Graphics</b>	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
<b>LVDS</b>	Dual channel LVDS transmitter, Supports flat panels 2x24 Bit interface, VESA mappings, resolutions up to 1920x1200, Automatic Panel, Detection via EDID/EPI
<b>Display Port (DP)</b>	3x DisplayPorts 1.1, max. resolution 2560x1600
<b>HDMI or DVI</b>	3x ports shared
<b>CRT Interface</b>	350 MHz RAMDAC, resolutions up to QXGA (2048x1536)
<b>SDVO</b>	1 x Intel compliant SDVO ports with 200MPixel/sec. Supports external DVI, TV and LVDS transmitter
<b>congatec Board Controller</b>	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
<b>Embedded BIOS Features</b>	AMI Aptio® UEFI 2.x firmware, 8 MByte serial SPI firmware flash
<b>Security</b>	Discrete on-board TPM 1.2/TPCA security functions, for Hash, RSA, keys and random numbers (optional)
<b>Power Management</b>	ACPI 3.0 with battery support
<b>Operating Systems</b>	Microsoft® Windows7 (embedded), Microsoft® Windows XP (embedded), Microsoft® Windows® Vista SP2, Linux , VxWorks
<b>Power Consumption</b>	Typ. application: tbd., see manual for full details
<b>Temperature:</b>	Operating: 0 .. +60°C Storage: -20 .. +80°C
<b>Humidity Operating:</b>	10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond.
<b>Size</b>	95 x 125 mm (3.74" x 4.92")