



# conga - B945

- Featuring the latest Intel® Core™ 2 Duo Processors up to 2.16 GHz
- Provides up to 4 GByte top of the line DRAM performance
- ACPI Battery Support, Flat Panel detection ...



**COM**   
**Express**



conga-B945	
<b>Formfactor</b>	COM Express™ Basic, (95 x 125 mm), Type II Connector Layout
<b>CPU</b>	Intel® Core™ 2 Duo T7400, 2.16 GHz, (4M cache, 667 MHz FSB, 65nm), Socket mPGA479M Intel® Core™ 2 Duo L7400 LV, 1.5 GHz, (4M cache, 667 MHz FSB, 65nm) Intel® Core™ 2 Duo U7500 ULV, 1.06 GHz, (2M cache, 533 MHz FSB, 65nm) Intel® Core™ Duo T2500, 2.0 GHz, (2M cache, 667 MHz FSB, 65nm), Socket mPGA479M Intel® Core™ Duo L2400 LV, 1.66 GHz, (2M cache, 667 MHz FSB, 65nm) Intel® Celeron® M440, 1.86 GHz, (1M cache, 533 MHz FSB, 65nm), Socket mPGA479M Intel® Celeron® M423 ULV, 1.06 GHz, (1M cache, 533 MHz FSB, 65nm)
<b>DRAM</b>	2 Sockets, SO-DIMM DDR2 667/PC5300 up to 4 GByte physical memory
<b>Chipset</b>	Graphics & Memory Controller Hub: Intel® 945GME I/O Controller Hub: Intel® 82801GHM (ICH7M-DH)
<b>Ethernet</b>	Gigabit Ethernet, Realtek RTL8111
<b>I/O Interfaces</b>	5x PCI Express™ Lanes, PCI Express Graphic (PEG x16), 2x Serial ATA® (AHCI) supporting RAID 0 and RAID 1, 1x EIDE (UDMA-66/100), 2x Express Card® (uses 2x USB & 2x PCI Express), 8x USB 2.0 (EHCI), PCI Bus 33 MHz Rev. 2.3, LPC Bus, I²C (Fast Mode, 400 kHz, Multi Master), Power Loss Control, Temperature Controlled Power-Up
<b>Sound</b>	AC'97 Rev.2.2 Compatible, Digital High Definition Audio Interface with support for multiple audio codecs
<b>Graphic Interface</b>	Enhanced 256 Bit 3D Video Controller, Intel® Graphics Media Accelerator 950, up to 10.6 GB/sec memory bandwidth, 256-bit graphics core, max. 224 MByte 64 Bit Video RAM (DVMT 3.0), Dynamic Display Modes for flat-panel, wide-screen and Digital TV support
<b>Full Dual View</b>	With two independent Pipelines
<b>Motion Video Support</b>	High Definition Hardware Motion Compensation to support high definition hi-bitrate MPEG2 media playback, Up and Down Scaling of Video Content, High Definition Content Decode, HDTV (1080i/p) Support
<b>Flat panel Interface</b>	Dual 112 MHz LVDS Transmitter, Supports all 1x18, 2x18, 1x24, 2x24 Bit, VESA- and openLDI-Mappings, Resolutions 640x480 up to 1920x1200, Automatic Panel Detection via EPI, (Embedded Panel Interface, based on VESA EDID™ 1.3)
<b>CRT Interface</b>	400 MHz RAMDAC, Resolutions up to 2048x1536 @ 75 Hz, including 1920x1080 @ >85 Hz (HDTV)
<b>AUX Output</b>	2x SDVO (shared with PEG x16 pins)
<b>TV Out</b>	Onboard TV encoder, supports HDTV (420p, 720p and 1080i), supports component and s-video
<b>congatec Board Controller</b>	Multi Stage Watchdog, Non-volatile User Data Storage, Manufacturing and Board information, Board Statistics, BIOS Setup Data Backup, I²C (Fast Mode, 400 kHz, Multi Master), Power Loss Control, Temperature Controlled Power-Up
<b>Embedded BIOS Features</b>	OEM Logo, OEM CMOS Defaults, LCD Control, (Auto Detection, Backlight Control), Flash Update, Based on AMIBIOS®
<b>Security (optional)</b>	TPM 1.2/TPCA Security Functions, for Hash, RSA, Keys and Random Numbers
<b>Power Management</b>	ACPI 2.0 with Battery support
<b>Operating Systems</b>	Microsoft®, Windows XP, Windows 2000, Windows XP embedded, Windows® CE 5.0/6.0, LINUX, QNX
<b>Power Consumption</b>	Typ. application: 10.5 W@12V, (1.66 GHz Core Duo), see manual for full details, CMOS Battery Backup
<b>Temperature</b>	Operating: 0 .. +60°C Storage: -20 .. +80°C
<b>Humidity</b>	Operating: 10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond.
<b>Size</b>	95 x 125 mm² (3.74" x 4.92")



# congatec

the rhythm of embedded computing

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