



# conga - CA945

- Allows cost effective & power efficient COM Express™ solutions

- Combines Intel® Atom™ processor technology with the feature rich embedded chipset Intel® 945 GSE



conga-CA945	
<b>Formfactor</b>	COM Express™ Compact, (95 x 95 mm), Type II Connector Layout
<b>CPU</b>	Intel® Atom™ N270, 1.6GHz, 512kB cache, 533MHz FSB, 45nm, 2.5W TDP
<b>DRAM</b>	1 Socket, SO-DIMM DDR2 533, up to 2 GByte
<b>Chipset</b>	Graphics & Memory Controller Hub: Intel® 945GSE I/O Controller Hub: Intel® 82801GHM (ICH7M)
<b>Ethernet</b>	Gigabit Ethernet, Realtek RTL8111
<b>I/O Interfaces</b>	3x PCI Express™ Lanes, 2x Serial ATA® (AHCI), 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 (DVTM 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, Resolutions 640x480 up to 1600x1200, Automatic Panel Detection via EPI, (Embedded Panel Interface, based on VESA EDID™ 1.3) and Display ID
<b>CRT Interface</b>	400 MHz RAMDAC, Resolutions up to 2048x1536 @ 75 Hz, including 1920x1080 @ >85 Hz (HDTV)
<b>AUX Output</b>	1x SDVO
<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/TPA Security Functions, for Hash, RSA, Keys and Random Numbers
<b>Power Management</b>	ACPI 2.0 with Battery support
<b>Operating Systems</b>	Microsoft® Vista™, Windows XP, Windows XP embedded, Windows® CE 5.0/6.0, LINUX, QNX
<b>Power Consumption</b>	Typ. application: <10 W@12V, 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 95 mm² (3.74" x 3.74")



# congatec

the rhythm of embedded computing

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