

Ultra Low Power

Formfactor	COM Express™ Compact, (95 x 95 mm), Type II Connector Layout
CPU	Intel® Atom™ N270, 1.6 GHz, 512 kB cache, 533 MHz FSB, 45nm, 2.5W TDP
DRAM	1 Socket, SO-DIMM DDR2 533, up to 2 GByte
Chipset	Graphics & Memory Controller Hub: Intel® 945GSE I/O Controller Hub: Intel® 82801GHM (ICH7M)
Ethernet	Gigabit Ethernet, Realtek RTL8111C
I/O Interfaces	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
Sound	AC'97 Rev.2.2 Compatible, Digital High Definition Audio Interface with support for multiple audio codecs
Graphic Interface	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 (DVM 3.0), Dynamic Display Modes for flat-panel, wide-screen and Digital TV support
Full Dual View	With two independent Pipelines
Motion Video Support	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 (1080/p) Support
Flat panel Interface	Dual 112 MHz LVDS Transmitter, Supports all 1x18, 2x18, Resolutions 640x480 up to 1920x1200, Automatic Panel Detection via EPL, (Embedded Panel Interface, based on VESA EDID™ 1.3) and Display ID
CRT Interface	400 MHz RAMDAC, Resolutions up to 2048x1536 @ 75 Hz, including 1920x1080 @ >85 Hz (HDTV)
AUX Output	1x SDVO
congatec Board Controller	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
Embedded BIOS Features	OEM Logo, OEM CMOS Defaults, LCD Control, (Auto Detection, Backlight Control), Flash Update, Based on AMIBIOS®
Security (optional)	TPM 1.2/TPA Security Functions, for Hash, RSA, Keys and Random Numbers
Power Management	ACPI 2.0 with Battery support
Operating Systems	Microsoft® Vista™, Windows XP, Windows XP embedded, Windows® CE 5.0/6.0, LINUX, QNX
Power Consumption	Typ. application: <10 W @ 12V, 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 95 mm² (3.74" x 3.74")

conga-CA945

Allows cost effective and power efficient COM Express™ solutions

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





congatec

the rhythm of embedded computing

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