

# conga-CAx

Extended Temperature Range  
-40° .. +85°C

Compact COM Express™ Module  
with best Performance per Watt Ratio

congatec Embedded BIOS,  
Flat Panel Detection, ...



# Industrial Temperature

Formfactor	COM Express™ Compact, (95 x 95 mm), Type II Connector Layout
<b>CPU</b>	Intel® Atom™ processor Z520PT 1.3 GHz, 533 MHz FSB and memory bus speed, 512k L2 cache, 45 nm, with Hyper-Threading Technology, industrial temperature Intel® Atom™ processor Z510PT 1.1 GHz, 400 MHz FSB and memory bus speed, 512k L2 cache, 45 nm
<b>DRAM</b>	Up to 1 GByte on-board DDR2 400/533 MHz
<b>Chipset</b>	Intel® System Controller Hub US15WPT, industrial temperature
<b>I/O Interfaces</b>	1x EIDE (UDMA-66/100), PCI bus Rev. 2.3, LPC bus, 8x USB 2.0, I <sup>2</sup> C bus
<b>Sound</b>	Intel® High Definition Audio (Intel® HD Audio)
<b>Ethernet</b>	Intel® Gigabit Ethernet 82574L Controller
<b>Graphic Interface</b>	Intel® Graphics Media Accelerator 500 (Intel® GMA 500), up to 256 MByte frame buffer supporting Direct X 9.0E and Open GL 2.0
<b>Video Decode Acceleration</b>	Full hardware acceleration for MPEG2, MPEG4, H.264, WMV9 and VC1
<b>Display Interfaces</b>	Single channel 112MHz LVDS transmitter, support for flat panels with 1x18 and x24 bit data mapping up to resolutions of 1366x768 pixel Single channel SDVO interface, supports resolutions up to 1920x1080 pixel Dual independent display support
<b>congatec Board Controller</b>	Multi Stage Watchdog, non-volatile User Data Storage, Manufacturing and Board Information, Board Statistics, BIOS Setup, Data Backup, I <sup>2</sup> C bus (fast mode, 400 kHz, multi-master), Power Loss Control
<b>Embedded BIOS Features</b>	OEM Logo, OEM CMOS Defaults, LCD Control, Display Auto Detection, Backlight Control, Flash Update, based on AMIBIOS®
<b>Power Management</b>	ACPI 3.0 with battery support
<b>Operating Systems</b>	Microsoft® Windows® Vista, Windows® XP, Windows® XP embedded, Windows® CE 6.0, LINUX, QNX
<b>Power Consumption</b>	Typ. application 5 Watt
<b>Temperature</b>	Operating: -40 to +85°C Storage: -40 to +85°C, extended temperature
<b>Humidity</b>	Operating: 10 to 90% r. H. non cond. Storage: 5 to 95% r. H. non cond.
<b>Size</b>	95 x 95 mm <sup>2</sup> (3¾" x 3¾")



# congatec

the rhythm of embedded computing

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