



- Best Performance / Watt COM Express™ Module
- Compact size for easy integration
- Extremely low power consumption, flat panel detection ...

## COM Express™ Module based on Intel® Atom™ Processor Z5xx Series

conga-CA	
<b>Formfactor</b>	COM Express™ Compact, (95 x 95 mm), Type II Connector Layout
<b>CPU</b>	Intel® Atom™ processor Z530 1.6 GHz, 533 MHz FSB and memory bus speed, 512k L2 cache, 45 nm, with Hyper-Threading Technology Intel® Atom™ processor Z510 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 US15W
<b>I/O Interfaces</b>	2x SATA, 1x EIDE (UDMA-66/100), PCI bus Rev. 2.3, LPC bus, 8x USB 2.0, I²C bus
<b>Sound</b>	Intel® High Definition Audio (Intel® HD Audio)
<b>Ethernet</b>	Gigabit Ethernet Realtek RTL8111
<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 1x24 bit data mapping up to resolutions of 1366x768 pixel Single channel SDVO interface, supports resolutions up to 1280x1024 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, I²C 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 AMIBIOS8
<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 ~3 Watt, max. 5 Watt
<b>Temperature</b>	Operating: 0 to +60°C Storage: -20 to +80°C, extended temperature versions in preparation
<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 mm² (3¾" x 3¾")



Bottom side



# congatec

the rhythm of embedded computing

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