

Low Power Consumption

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

Formfactor	COM Express™ Compact, (95 x 95 mm), Type II Connector Layout
CPU	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
DRAM	Up to 1 GByte on-board DDR2 400/533 MHz
Chipset	Intel® System Controller Hub US15W
I/O Interfaces	2x SATA, 1x EIDE (UDMA-66/100), PCI bus Rev. 2.3, LPC bus, 8x USB 2.0, I²C bus
Sound	Intel® High Definition Audio (Intel® HD Audio)
Ethernet	Gigabit Ethernet Realtek RTL8111
Graphic Interface	Intel® Graphics Media Accelerator 500 (Intel® GMA 500), up to 256 MByte frame buffer supporting Direct X 9.0E and Open GL 2.0
Video Decode Acceleration	Full hardware acceleration for MPEG2, MPEG4, H.264, WMV9 and VC1
Display Interfaces	Single channel 112 MHz LVDS transmitter, support for flat panels (1920x1080) with 1x18 and 1x24 bit data mapping up to resolutions of 1366x768 pixel Single channel SDVO interface, supports resolutions up to 1920x1080 pixel Dual independent display support
congatec Board Controller	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
Embedded BIOS Features	OEM Logo, OEM CMOS Defaults, LCD Control, Display Auto Detection, Backlight Control, Flash Update, based on AMIBIOS®
Power Management	ACPI 3.0 with battery support
Operating Systems	Microsoft® Windows® Vista, Windows® XP, Windows® XP embedded, Windows® CE 6.0, LINUX, QNX
Power Consumption	Typ. application 5 Watt
Temperature	Operating: 0 to +60°C Storage: -20 to +80°C, extended temperature versions in preparation
Humidity	Operating: 10 to 90% r. H. non cond. Storage: 5 to 95% r. H. non cond.
Size	95 x 95 mm² (3¾" x 3¾")

conga-CA

Best Performance / Watt
COM Express™ Module

Compact size for easy
integration

Extremely low power consumption,
Flat Panel detection ...





congatec

the rhythm of embedded computing

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