

COM Express Compact Module

Low Power Consumption

conga-CA

Best Performance / Watt COM Express™ Module

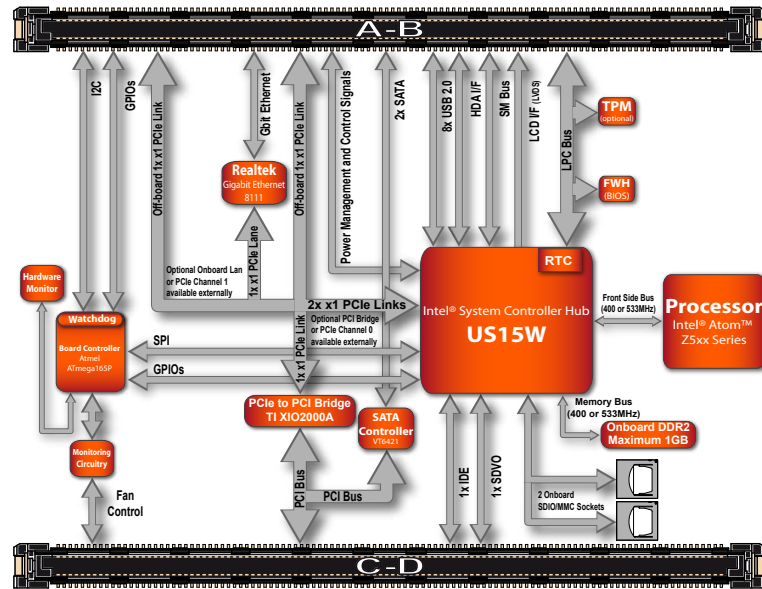
Compact size for easy integration

Extremely low power consumption, Flat Panel detection ...



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 cache, 45 nm, with Hyper-Threading Technology and Intel® Virtualization Technology Intel® Atom™ processor Z510 1.1 GHz, 400 MHz FSB and memory bus speed, 512k cache, 45 nm
DRAM	Up to 1 GByte on-board DDR2 400/533 MHz
Chipset	Intel® System Controller Hub US15W
Ethernet	Gigabit Ethernet Realtek RTL8111
I/O Interfaces	2x SATA, 1x EIDE (UDMA-66/100), PCI bus Rev. 2.3, LPC bus, 8x USB 2.0, I²C bus, up to 2 PCI Express links optional
Sound	Intel® High Definition Audio (Intel® HD Audio)
Graphics	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
Motion Video Support	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 1280x1024 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 7, Microsoft® Windows XP, Microsoft® Windows CE 6.0, Microsoft® Windows® Embedded Compact 7, Microsoft® Windows® Embedded Standard, Linux
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 mm (3¾" x 3¾")

Block Diagram conga-CA



Order Information conga-CA

Article	PN	CPU-Z510	CPU-Z530	512MB onboard	1.0 GB onboard	SATA	GB Ethernet	PCIe	PCI	Onboard SDIO MMC Sockets
conga-CA/Z510-512	087477	✓		✓		✓	✓		✓	✓
conga-CA/Z510-1G	044412	✓			✓	✓	✓		✓	✓
conga-CA/Z530-1G	061125		✓		✓	✓	✓		✓	✓

Article	PN	Description
conga-CA/HSP-B	055441	Heatspreader, Standoff with 2.7mm bore hole
conga-CA/HSP-T	061788	Heatspreader, Standoff with M2.5mm thread

Engineering Tools / Accessories for COM Express*

conga-CEVAL	065749	Evaluation carrier board for COM-Express-modules
conga-Cdebug	047854	COM-Express debugging platform. Including cable for COM, PS/2 and VGA.
conga-CKIT	064714	COM-Express-Starterkit, incl. conga-CEVAL, conga-CDEBUG, conga-FPA1 (PN: 024241), Dual DVI-D ADD2 card, Power supply, USB-Stick, ... Without COM Express-module
conga-MCB/COM Express	020715	Mini Carrier Board for COM Express with smart battery manager interface for mobile applications.
conga-MCB/COM Express Cable Kit	14000040	Complete cable kit for the COM Express mini carrier board
conga-LDVI/EPI	011115	LVDS to DVI converter board for digital flat panels with onboard EEPROM
conga-HDMI/Display Port adapter	500014	The conga-HDMI/DisplayPort adapter is used to convert the chipset graphic ports Port-B, Port-C and Port-D to the HDMI or DisplayPort Interface
DVI-D ADD2 Card	058500	ADD2 display adapter card with single DVI-D digital output. Suitable for all Intel based platforms that support Serial Digital Display Outputs (SDVO) on the standard, x16 PCI Express Graphics (PEG) port.
Dual DVI-D ADD2 Card	013226	ADD2 display adapter card with dual independent DVI-D output. Suitable for all Intel based platforms that support Serial Digital Display Outputs (SDVO) on the standard, x16 PCI Express Graphics (PEG) port.
conga-FPA2	047250	Flatpanel prototype adapter to develop your own flatpanel adapter Including cables set.
COM-Express-carrierboard-Socket-5	400007	Connector for COM-Express carrier boards, height 5mm, packing unit 4 pieces
COM-Express-carrierboard-Socket-8	400004	Connector for COM-Express carrier boards, height 8mm, packing unit 4 pieces

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[congatec:](#)

[conga-CA/HSP-B](#) [conga-CA/HSP-T](#)