

# COM Express Basic Module

## Economy Class

### conga-B915

Economy priced COM Express™ modules

Performance up to 1.5 GHz  
Intel® Celeron® M

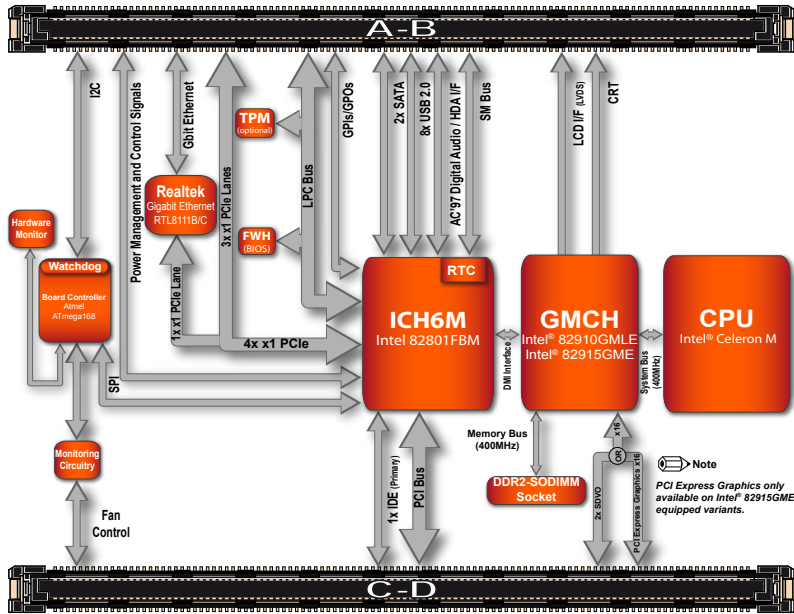
ACPI Battery Support,  
Flat Panel detection ...



<b>Formfactor</b>	<b>COM Express™ Basic, (95 x 125 mm), Type II Connector Layout</b>
<b>CPU</b>	Intel® Celeron® M 370 1.5 GHz, 1 MB cache, FSB 400 MHz Intel® Celeron® M 373 1.0 GHz, ULV, 512 KB cache, FSB 400 MHz Intel® Celeron® M 600 MHz, ULV, 512 KB cache, FSB 400 MHz
<b>DRAM</b>	SO-DIMM DDR2 DDR400/PC4200 up to 2 GByte
<b>Chipset</b>	Graphics & Memory Controller Hub: Intel® 910GML E I/O Controller Hub: Intel® 82801FBM (ICH6-M)
<b>Ethernet</b>	Gigabit Ethernet, Realtek RTL8111
<b>I/O Interfaces</b>	3x PCI Express™ Lanes, PCI Express Graphic (PEG x16), 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)
<b>Sound</b>	AC'97 Rev.2.2 Compatible, Digital High Definition Audio Interface with support for multiple audio codecs
<b>Graphics</b>	Enhanced 256 Bit 3D Video Controller, Intel® Graphics Media Accelerator 900, 533 MHz Memory Clock, max. 128 MByte 64 Bit Video RAM (DVM T 3.0) Two independent pipelines for full dual view support
<b>Motion Video Support</b>	Motion Compensation, Subpicture Support, Dynamic Bob & Weave, HDTV (1920x1080) Support
<b>Flat panel Interface</b>	Dual 112 MHz LVDS Transmitter, Supports all 1x18, 2x18, 1x24, 2x24 Bit, VESA- and openLDI-Mappings, Resolutions 640x480 up to 1920x1200, Automatic Panel Detection via EPI, (Embedded Panel Interface, based on VESA EDID™ 1.3)
<b>CRT Interface</b>	400 MHz RAMDAC, Resolutions up to 2048x1536 @ 75 Hz, (QXGA), including 1920x1080 @ >85 Hz (HDTV)
<b>AUX Output</b>	2x SDVO
<b>congatec Board Controller</b>	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
<b>Embedded BIOS Features</b>	OEM Logo, OEM CMOS Defaults, LCD Control, (Auto Detection, Backlight Control), Flash Update, Based on AMIBIOS®
<b>Security</b>	The conga-B915 can be optionally equipped with a discrete "Trusted Platform Module" (TPM). It is capable of calculating efficient hash and RSA algorithms with key lengths up to 2,048 bits and includes a real random number generator. Security sensitive applications such as gaming and commerce will benefit also with improved authentication, integrity and confidence levels.
<b>Power Management</b>	ACPI 2.0 with Battery support
<b>Operating Systems</b>	Microsoft® Windows XP, Microsoft® Windows® embedded Standard, Microsoft® Windows CE 6.0, Microsoft® Windows Embedded Compact 7, Linux
<b>Power Consumption</b>	Typ. application: 6.5 W @ 12V, (Intel® Celeron® M 1 GHz), see manual for full details, CMOS Battery Backup
<b>Temperature</b>	Operating: 0 .. +60°C Storage: -20 .. +80°C
<b>Humidity</b>	Operating: 10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond.
<b>Size</b>	95 x 125 mm (3.74" x 4.92")

# Block Diagram conga-B915

# Order Information conga-B915



Article	PN	Description
conga-B915/CM600-512 eco	057741	Intel 910GMLE chipset and Intel Celeron M with 600MHz, 512 kB L2-Cache and 400 Mhz FSB
conga-B915/373 eco	077587	COM Express module with Intel 910GMLE chipset and Intel Celeron M 373, ULV-CPU with 1.0 GHz, 512kB L2-Cache and 400 Mhz FSB
conga-B915/370 eco	025540	COM Express module with Intel 910GMLE chipset and Intel Celeron M with 1.5GHz, 1 MByte L2-Cache and 400 Mhz FSB
conga-B915/HSP-B	024175	Heatspreader, Standoff with 2.7mm bore hole
conga-B915/HSP-T	058741	Heatspreader, Standoff with M2.5mm thread
conga-B915/CSA-B	054123	Standard active cooling solution, surface black with 10mm fins, integrated 12V fan 5500rpm, cable length 200mm, w/3 pin, 2.54 pitch connector, bore hole standoffs
conga-B915/CSA-T	069877	Standard active cooling solution, surface black with 10mm fins, integrated 12V fan 5500rpm, cable length 200mm, w/3 pin, 2.54 pitch connector, thread standoffs
conga-B915/CSP-B	087415	Standard passive cooling solution, surface black with 10mm fins, bore hole standoffs
conga-B915/CSP-T	068741	Standard passive cooling solution, surface black with 10mm fins, thread standoffs
DDR2-SODIMM-667 (512MB)	057841	DDR2 SODIMM memory module with 667MT/s and 512MB RAM.
DDR2-SODIMM-667 (1GB)	087412	DDR2 SODIMM memory module with 667MT/s and 1GB RAM.
DDR2-SODIMM-667 (2GB)	068712	DDR2 SODIMM memory module with 667MT/s and 2GB RAM.

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-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

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