

# XTX™ Module

## Economy Model

### conga-X915

Based on Intel® 915 chipset

Featuring Intel® Pentium® M  
up to 1.8 GHz

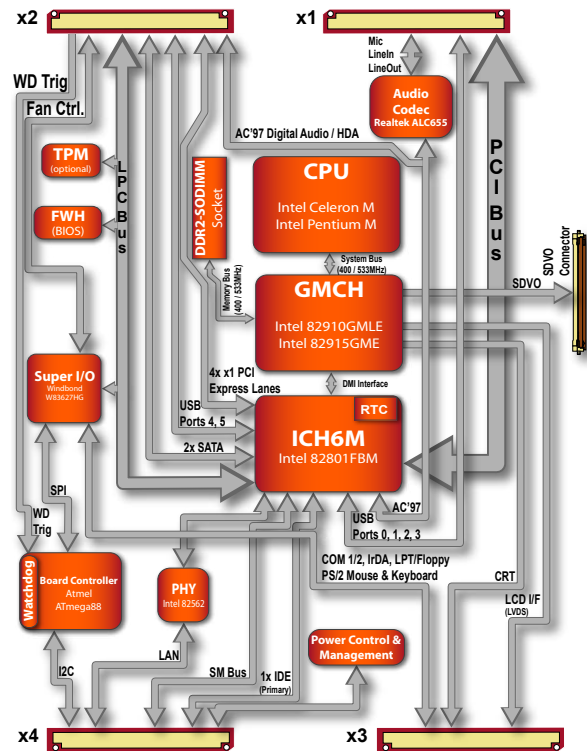
ACPI Battery Support,  
Flat Panel detection ....



<b>Formfactor</b>	<b>ETX® Spec 2.7. without ISA Support, XTX™ Extensions</b>
<b>CPU</b>	Intel® Pentium® M 745 1.8 GHz, 2 MByte cache, FSB 400 MHz Intel® Pentium® M 738 1.4 GHz, LV, 2 MByte cache, FSB 400 MHz Intel® Celeron® M 373 1.0 GHz, ULV, 512 k cache, FSB 400 MHz Intel® Celeron® M 600 MHz, ULV, 512 kByte cache, FSB 400 MHz (Intel® 910GML E Chipset)
<b>DRAM</b>	SO-DIMM DDR2 DDR400/PC3200 up to 2 GByte
<b>Chipset</b>	Graphics & Memory Controller Hub: Intel® 915GME I/O Controller Hub: Intel® 82801FBM (ICH6-M) I/O Controller: Winbond 83627HG Ethernet PHY: Intel® 82562
<b>Ethernet</b>	IEEE 802.3u 100Base-Tx, Fast Ethernet compatible
<b>I/O Interfaces</b>	4x PCI Express™ Lanes, 2x Serial ATA* (AHCI), 1x EIDE (UDMA-66/100), 2x Express Card* (uses 2x USB & 2x PCI Express), 6x USB 2.0 (EHCI), PCI Bus Rev. 2.3, no ISA Bus, LPC Bus, I²C Bus, 400 kHz, Floppy (Shared with LPT), LPT (EPP/ECP, Shared with Floppy), 2x COM Ports TTL Level, 1x IrDA Port, PS/2 Keyboard, Mouse
<b>Sound</b>	AC'97 Rev.2.2 Compatible, Line In, Line Out, Mic In, 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), Serial Port Console Redirection, for Remote Setup and Installation, Flash Update, Based on AMIBIOS®
<b>Security</b>	The conga-X915 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 e 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 CE 6.0, Microsoft® Windows® embedded Standard, Windows Embedded Compact 7, Linux
<b>Power Consumption</b>	Typ. application 6.5W @ 5V, (1 GHz Celeron® M), 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 114 mm (3.7" x 4.5")

# Block Diagram conga-X915

# Order Information conga-X915



Article	PN	Description
conga-X915/CM600-512 eco	013410	Intel 910GML and Intel Celeron M with 600MHz
conga-X915/CM1000-0 eco	023557	Intel 910GML and Intel Celeron M ULV-CPU with 1.0 Ghz
conga-X915/373	098634	Intel 915GME and Intel Celeron M 373
conga-X915/738	075643	Intel 915GME and Intel Pentium M 738
conga-X915/745	012041	Intel 915GME and Intel Pentium M 745
conga-X915+X945/HSP-B	062579	Heatspreader , Standoff with 2.7mm bore hole
conga-X915+X945/HSP-T	011278	Heatspreader, Standoff with M2.5mm thread
conga-X915+X945/CSP-B	024873	Standard passive cooling solution, black surface with 10mm fins, bore hole standoffs
conga-X915+X945/CSP-T	073258	Standard passive cooling solution, black surface with 10mm fins, thread standoffs
conga-X915+X945/CSA-B	088741	Standard active cooling solution, black surface with 10mm fins, integrated 12V fan 5500rpm, cable length 200mm, w/3 pin, 2.54 pitch connector, bore hole standoffs
conga-X915+X945/CSA-T	036198	Standard active cooling solution, black surface with 10mm fins, integrated 12V fan 5500rpm, cable length 200mm, w/3 pin, 2.54 pitch connector, thread standoffs
DDR2-SODIMM-667 (512MB)	057841	DDR2-SODIMM memory module with 512MB RAM (667 MT/s)
DDR2-SODIMM-667 (1GB)	087412	DDR2-SODIMM memory module with 1GB RAM (667 MT/s)
DDR2-SODIMM-667 (2GB)	068712	DDR2-SODIMM memory module with 2GB RAM (667 MT/s)

## Engineering Tools / Accessories for XTX\*

conga-Xeval	019482	Evaluation carrier board for XTX-modules
conga-XXKIT	077441	XTX-Starterkit with conga-XEVAL, conga-Xdebug, conga-FPA2, conga-XDVI, Power supply, USB-Stick, ...Without XTX-module
conga-XDVI	098637	Evaluation platform to convert SDVO to DVI-D
conga-Xdebug	041784	XTX debugging platform. Including cable for COM, PS/2 and VGA
conga-FPA2	047250	Flatpanel prototype adapter to develop your own flatpanel adapter including cables set
XTX/ETX-baseboard-socket-3	400006	Connector for ETX and XTX carrier boards, height 3.0 mm, packing unit 8 pieces
XTX/ETX-baseboard-socket-9.5	400009	Connector for ETX and XTX carrier boards, height 9.5 mm, packing unit 8 pieces
conga-LDVI/EPI	011115	LVDS to DVI adapter board for digital flat panels with a graphics resolution up to 1280x1024 pixel

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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