

XTX™ Module

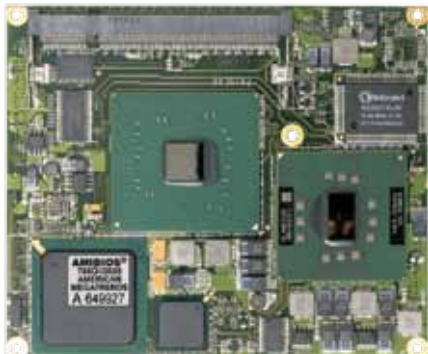
Economy Model

conga-X915

Based on Intel® 915 chipset

Featuring Intel® Pentium® M
up to 1.8 GHz

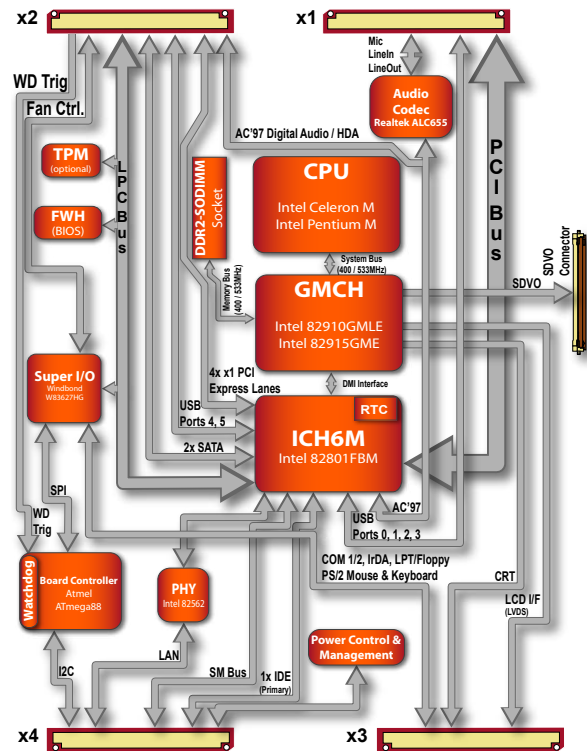
ACPI Battery Support,
Flat Panel detection



Formfactor	ETX® Spec 2.7. without ISA Support, XTX™ Extensions
CPU	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)
DRAM	SO-DIMM DDR2 DDR400/PC3200 up to 2 GByte
Chipset	Graphics & Memory Controller Hub: Intel® 915GME I/O Controller Hub: Intel® 82801FBM (ICH6-M) I/O Controller: Winbond 83627HG Ethernet PHY: Intel® 82562
Ethernet	IEEE 802.3u 100Base-Tx, Fast Ethernet compatible
I/O Interfaces	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
Sound	AC'97 Rev.2.2 Compatible, Line In, Line Out, Mic In, Digital High Definition Audio Interface with support for multiple audio codecs
Graphics	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
Motion Video Support	Motion Compensation, Subpicture Support, Dynamic Bob & Weave, HDTV (1920x1080) Support
Flat panel Interface	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)
CRT Interface	400 MHz RAMDAC, Resolutions up to 2048x1536 @ 75 Hz, (QXGA), including 1920x1080 @ >85 Hz (HDTV)
AUX Output	2x SDVO
congatec Board Controller	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
Embedded BIOS Features	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®
Security	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.
Power Management	ACPI 2.0 with Battery support
Operating Systems	Microsoft® Windows XP, Microsoft® Windows CE 6.0, Microsoft® Windows® embedded Standard, Windows Embedded Compact 7, Linux
Power Consumption	Typ. application 6.5W @ 5V, (1 GHz Celeron® M), see manual for full details, CMOS Battery Backup
Temperature	Operating: 0 .. +60°C Storage: -20 .. +80°C
Humidity	Operating: 10 - 90% r. H. non cond. Storage: 5 - 95% r. H. non cond.
Size	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