

XTX™ Module

Entry Level Model

conga-XLX

Entry level module based on
AMD Geode® LX800

Low power consumption

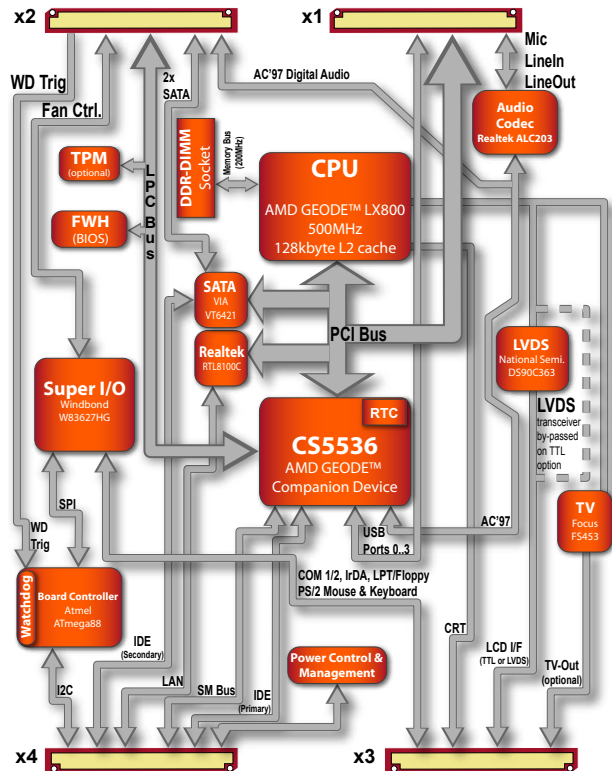
ACPI Battery Support,
Flat Panel detection



Formfactor	ETX® Spec 2.7. without ISA Support, XTX™ Extensions
CPU	AMD Geode™ LX 800 Processor, 500 MHz, 400 MT/s memory bus speed, 128 kByte L2 Cache
DRAM	SO-DIMM DDR333/PC2700 up to 1 GByte
Chipset	Companion Device: AMD Geode™ CS5536 Ethernet: Realtek RTL8100C I/O Controller: Winbond 83627HG Audio Codec: ALC658
Ethernet	IEEE 802.3u 100Base-Tx, Fast Ethernet compatible
I/O Interfaces	2x Serial ATA® , 2x EIDE (UDMA-66/100), 4x USB 2.0 (EHCI), PCI Bus Rev. 2.1, LPC Bus, I²C (Fast Mode, 400 kHz, Multi Master), 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, AC'97 digital audio interface
Graphics	Integrated in chipset, Unified Memory Architecture (UMA), up to 254 MByte graphic memory space
Motion Video Support	H/W Up- and Downscaling, High Definition digital video support, alpha blending and color keying
Flat panel Interface	68 MHz LVDS Transmitter Automatic Panel Detection via EPI (Embedded Panel Interface based on VESA EDID™ 1.3), 1x18 Bit TFT, resolutions 320x240 up to 1024x768, optional direct TTL interface
CRT Interface	350 MHz RAMDAC, Resolutions up to, 1920x1440x32bpp @ 85 Hz, 1600x1200x32bpp @ 100 Hz
TV Out	Optional onboard TV encoder, supports HDTV (420p, 720p and 1080i), supports component- and s-video, signals on ETX X3 connector
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), Flash Update, Based on Insyde XpressROM
Power Management	Typ. application 5W @ 5V see manual for full details, ACPI 2.0 with Battery support, APM 1.2
Operating Systems	Microsoft® Windows XP, Microsoft® Windows® embedded Standard, Microsoft® Windows CE 6.0, Linux 2.6, QNX 6.x
Power Consumption	Typ. application 5W @ 5V 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-XLX

Order Information conga-XLX



Article	PN	Description
conga-XLX/800-LVDS	057824	AMD Geode LX800 and AMD companion chip CS5536 mit 500 Mhz, LVDS graphics-interface
conga-XLX/800-TTL	084267	AMD Geode LX800 and AMD companion chip CS5536 mit 500 Mhz, TTL graphics-interface
conga-XLX/HSP-B	074215	Heatspreader, Standoff with 2.7mm bore hole
conga-XLX/HSP-T	057821	Heatspreader, Standoff with M2.5mm thread
DDR1-SODIMM-333 (0256MB)	068721	256 MByte DDR1 SODIMM memory module
DDR1-SODIMM-333 (0512MB)	055741	512 MByte DDR1 SODIMM memory module
DDR1-SODIMM-333 (1024MB)	074589	1 GByte DDR1 SODIMM memory module

Engineering Tools / Accessories for XTX®		
conga-Xeval	019482	Evaluation carrier board for XTX-modules
conga-XKIT	077441	XTX-Starterkit with conga-XEVAL, conga-Xdebug, conga-FPA1 (024241), conga-XDVI, Power supply, CD-ROM, USB-Stick, ...Without XTX-module
conga-ITX/X	057891	Baseboard for XTX-modules. Formfactor mini-ITX, ...
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-SBM²-module	088774	SMART Battery Manager Module
conga-SBM²-2nd accu	096582	Second Smart Battery, only for the conga-SBM²-Kit.
conga-SBM²-KIT	026571	Starterkit to evaluate SBM-Features. With SMART-Battery Manager Module and cable set
conga-SBM² Licence and Design Kit	052741	SMART Battery Manager Module Design Kit including licence agreement for customer integration, Hardware design files (Schematics, Bill of Material), Battery Manager Firmware (incl. commented source code), AVR-Programming Tool AT90 JTAG ICE MKII
conga-LDVI/EPI	011115	LVDS to DVI adapter board for digital fl at panels with a graphics resolution up to 1280x1024 pixel