

# XTX™ Module

## Entry Level Model

### conga-XLX

Entry level module based on  
AMD Geode® LX800

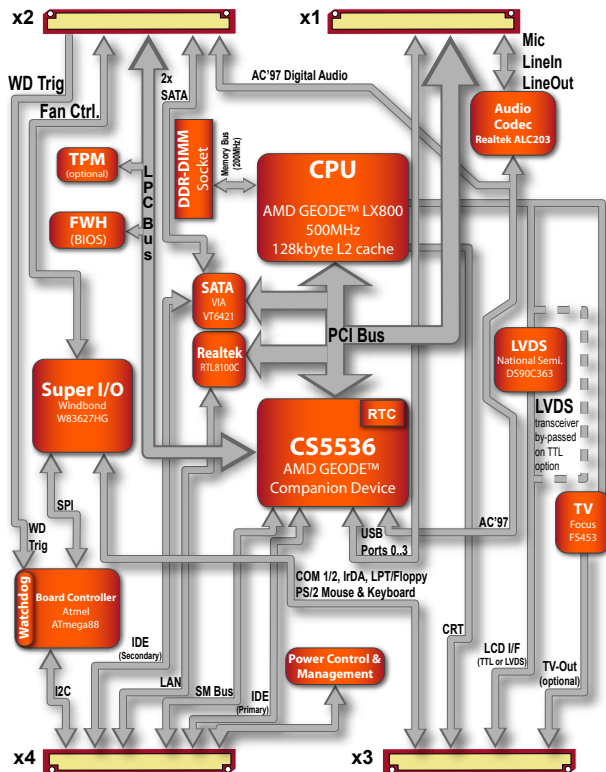
Low power consumption

ACPI Battery Support,  
Flat Panel detection ....



<b>Formfactor</b>	<b>ETX® Spec 2.7. without ISA Support, XTX™ Extensions</b>
<b>CPU</b>	AMD Geode™ LX 800 Processor, 500 MHz, 400 MT/s memory bus speed, 128 kByte L2 Cache
<b>DRAM</b>	SO-DIMM DDR333/PC2700 up to 1 GByte
<b>Chipset</b>	Companion Device: AMD Geode™ CS5536 Ethernet: Realtec RTL8100C I/O Controller: Winbond 83627HG Audio Codec: ALC658
<b>Ethernet</b>	IEEE 802.3u 100Base-Tx, Fast Ethernet compatible
<b>I/O Interfaces</b>	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
<b>Sound</b>	AC'97 Rev.2.2 compatible, Line In, Line Out, Mic In, AC'97 digital audio interface
<b>Graphics</b>	Integrated in chipset, Unified Memory Architecture (UMA), up to 254 MByte graphic memory space
<b>Motion Video Support</b>	H/W Up- and Downscaling, High Definition digital video support, alpha blending and color keying
<b>Flat panel Interface</b>	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
<b>CRT Interface</b>	350 MHz RAMDAC, Resolutions up to, 1920x1440x32bpp @ 85 Hz, 1600x1200x32bpp @ 100 Hz
<b>TV Out</b>	Optional onboard TV encoder, supports HDTV (420p, 720p and 1080i), supports component- and s-video, signals on ETX X3 connector
<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 Insyde XpressROM
<b>Power Management</b>	Typ. application 5W @ 5V see manual for full details, ACPI 2.0 with Battery support, APM 1.2
<b>Operating Systems</b>	Microsoft® Windows XP, Microsoft® Windows CE 6.0, Microsoft® Windows® embedded Standard, Linux
<b>Power Consumption</b>	Typ. application 5W @ 5V 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-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-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