

# ETX<sup>®</sup> Module

## Eco Model

### conga-ELX

Low power consumption

Featuring AMD<sup>®</sup> Geode<sup>®</sup> LX800

Up to 1 GByte DRAM

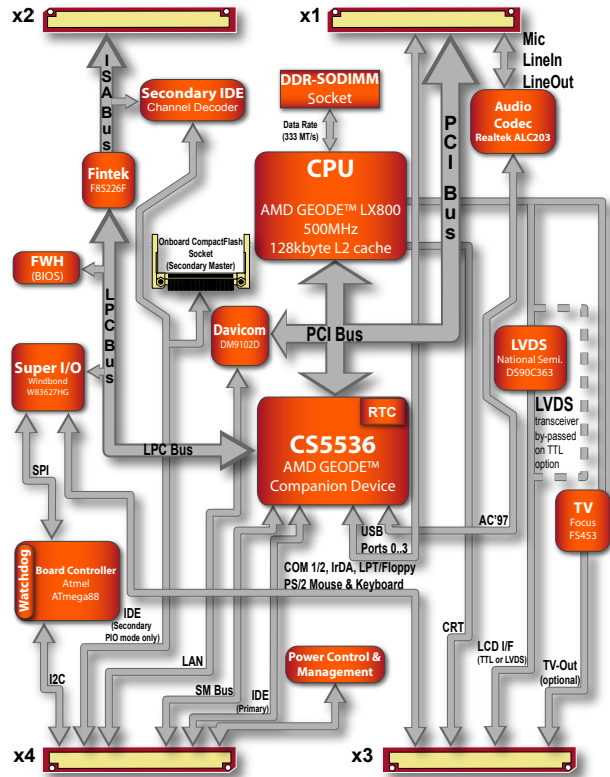
# ETX<sup>®</sup>



<b>Formfactor</b>	<b>ETX<sup>®</sup> Spec 2.7</b>
<b>CPU</b>	AMD Geode™ LX 800 Processor, 400 MT/s memory bus speed, 128 kByte L2 Cache
<b>DRAM</b>	SO-DIMM PC2700 up to 1 GByte
<b>Chipset</b>	Companion Device: AMD Geode™ CS5536 Ethernet: Davicom DM9102D I/O Controller: Winbond 83627HG Audio Codec: ALC203
<b>Ethernet</b>	IEEE 802.3u 100Base-Tx, Fast Ethernet compatible
<b>I/O Interfaces</b>	1x EIDE (UDMA-66/100), primary, 1x IDE (PIO mode only), secondary 1x CompactFlash Socket onboard, 4x USB 2.0 (EHCI), PCI Bus Rev. 2.1, ISA Bus, I <sup>2</sup> C (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
<b>Graphics</b>	Integrated in chipset up to 254 MByte graphic memory (UMA)
<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, I <sup>2</sup> C (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>	APM 1.2
<b>Operating Systems</b>	Microsoft® Windows XP, Microsoft® Windows® embedded Standard, Microsoft® Windows CE 6.0, Linux 2.6, QNX 6.x
<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-ELX

# Order Information conga-ELX



Article	PN	Description
conga-ELX/800-LVDS	024477	AMD Geode LX800 and AMD companion chip CS5536 CPU with 500 Mhz, LVDS graphics-interface
conga-ELX/800-TTL	064987	AMD Geode LX800 and AMD companion chip CS5536 CPU with 500 Mhz, TTL graphics-interface
conga-ELX/DD-HSP-B	045458	Heatspreader (Deep drawn stamped), with 2.7mm bore hole
conga-ELX/DD-HSP-T	066558	Heatspreader (Deep drawn stamped), with 2.5mm 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 ETX®		
conga-EEVAL	033269	Evaluation carrier board for ETX-modules
conga-FPA2	047250	Flatpanel prototype adapter to develop your own flatpanel adapter including cables set.
XTX/ETX-carrierboard-socket-3	400006	Connector for ETX and XTX carrier boards, height 3.0 mm, packing unit 8 pieces
XTX/ETX-carrierboard-socket-9.5	400009	Connector for ETX and XTX carrier boards, height 9.5 mm, packing unit 8 pieces