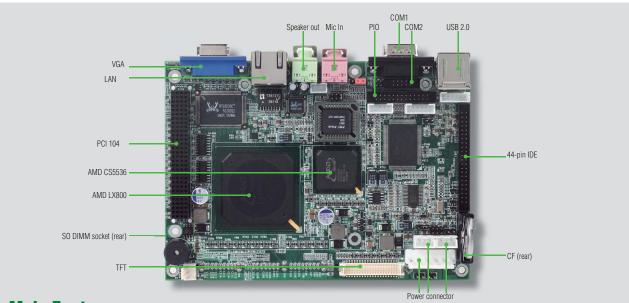
EBC 320



Main Features

- AMD Geode™ LX800 Processor with 128 KB L2 Cache
- VIA CS5536 Integrated Chipset
- 1 x SO-DIMM Socket, Up to 1GB Non-ECC/Non-registered DDR SDRAM
- 1 x Realtek 8139C+ 10/100 Ethernet Controller
- Supports CRT/TTL LCD
- CompactFlash Socket/PCI 104 Interface

Product Overview

The EBC 320 is a 3.5" embedded board featuring AMD LX800 processor supporting one DDR SO-DIMM socket, up to 1GB Non-ECC Non-Registered DDR SDRAM. The EBC 320 incorporates AMD CS 5536 chipsets supporting un-registered non-ECC DDR 200 MHz SDRAM with maximum memory up to 1GB and integrated graphic controller supporting both standard VGA and TFT.

The EBC 320 embedded board supports a various range of Operating Systems such as Windows XP embedded, Win CE, and Linux. The EBC 320 with low power processor, small footprint, and versatile I/O port to offer the best solution for industrial applications.

Specifications

CPU Support

- AMD Geode™ LX800,500 MHz on Board
- 128 KB L2 cache (64 KB I-cache/64 KB D-cache)

Main Memory

 1 x 200-pin SO-DIMM socket, up to 1GB Non-ECC/Non-Registered DDR SDRAM (64-bit, 200 MHz)

Chipset

• AMD Geode LX800/AMD CS 5536

BIOS

- Award system BIOS
- · Plug & Play support
- Advanced Power Management and Advanced Configuration & Power Interface support
- 4M bits flash ROM ACPI
- · ACPI support: Only support Software Shutdown by 5Vsb Provided

On-board LAN

- 1 x Realtek 8139C+ 10/100 Fast Ethernet Controller
- Supports Boot From LAN (PXE)
- · Supports Wake on LAN by 5usb provided
- 1 x RJ45 with LED

Display

- The Geode™ LX800 integrated Graphic, supports both standard VGA and TFT
- Analog VGA Interface:
 1 x DB15 VGA port
 CRT Supports up to 1020v1440v22 hop at 9
- CRT Supports up to 1920x1440x32 bpp at 85 Hz
- TTL Interface: TTL LCD supports up to 24bit, 1600x1200x32 bpp at 60 Hz for TFT

Audio

- REALTEK, ALC203 CODEC for AC97 v. 2.0
- Mic in and Speaker out connector, Line in with pin header

I/O Interface

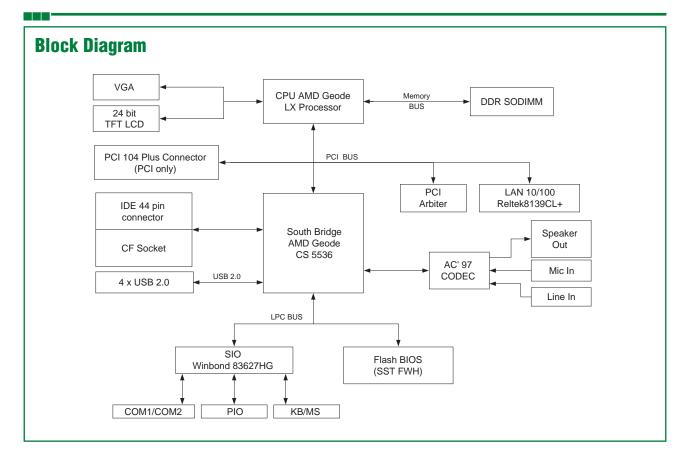
- 4 x USB 2.0 port (USB 1/2 on front, USB 3/4 via one JST connector), bandwidth: 480 Mb/s
- 2 x SIO, 16C550 UARTs (One on DB9 edge connector support RS-232, one onboard with pin header support RS-232/422/485)
- Parallel ports:Bi-directional, EPP/ECP support, 1 x box header 26-pin connector
- PS/2: 1 x 6-pin 2.0mm JST box header
- IrDA: 1 x 5-pin box header for IrDA,TX,RX
- On Board buzzer

two x 2 pin header for Reset switch and Power Button two x 2 pin header Power LED and HDD LED

1 x 3 pin 2.0mm pin header for SMBUS and I²C

NE(COM 3.5" CPU Boards





Storage Support

- 1 x CF Internal socket Support One Type I& II Compact Flash Card (Primary Master)
- 1 x IDE 44-pin connector, supports Ultra DMA 33/66/100 1 x 2-pin IDE Active LED Header

Watchdog Timer

 Watchdog Timer is programmable by software from 0 to 255 seconds and from 0 minute to 255 minutes (Tolerance 15% under room temperature 25°C)

On-board RTC

- · On chip RTC with battery back up
- 1 x External Li-ion Battery

Power Requirements

- Supports both AT and ATX Mode (BIOS and H/W is default to AT mode)
- AT Mode: +5V Power in,No Power On push Button, Software Shutdown function and LAN remote wake up

Power requirement	+5 V
Full-Loading Mode	1.55A
Light loading Mode	1A

 ATX Mode: Power Required: +5V/-5V/5Vsb Power In When Change to ATX Mode, the BIOS default setting is as follow: POWER -SUPPLY TYPE -->[ATX] AUTO PWR-FAILURE RESUME-->[ON]

Dimensions

• 3.5" form factor 146mm (L) x 105mm (W) (5.7"x 4.1")

Environment

- Board level operating temperature:0°C to 60°C
- Storage temperature:-20°C to 85°C
- Relative humidity: 10% to 90% (Non-condensing)

Certifications

- CE approval
- FCC Class A

Ordering Information

- EBC 320-LX8 (P/N: 10E00032000X0) RoHS Compliant
 3.5" Low Voltage Embedded Board with on board AMD LX800 processor w/ PCI 104/IDE/CF/VGA/COM/Audio/USB2.0/LAN
- Packing List

Part No.	Description
60233USB59X00	USB CABLE
60233MK202X00	PS2 Y CABLE
60233IDE86X00	IDE CABLE 44P TO 40P
6023325262X00	PRINT CABLE
60233SI006X00	COM CABLE w/BRACKET
60233PW145X00	POWER CABLE