



Main Features

- ♦ Low Power ETX CPU Module
- ♦ On-board Intel® Atom™ N270 1.6GHz Processor
- ♦ Intel® 945GSE Chipset
- ♦ Support DDR2 400/533 SO-DIMM up to 2GB
- ♦ Realtek RTL8111C Gbe LAN Controller with 10/100 Interface
- ♦ High Definition Audio ALC888 with AC'97 Interface
- ♦ Support LVDS Interface
- ♦ Support SDVO Interface

Specifications

CPU Support

- ♦ On-board Intel® Atom™ N270 1.6GHz processor

Chipset

- ♦ Intel® 945GSE and ICH7M chipsets

Main Memory

- ♦ Support one un-buffered non-ECC DDR2 SO-DIMM 400/533 up to 2GB

BIOS

- ♦ Award system BIOS
- ♦ Advanced Power Management support
- ♦ 8M SPI ROM

Display

- ♦ Intel® 945GSE integrated graphics solution with dynamic video memory allocation
- ♦ Analog monitor resolution up to 1600x1200 @ 85Hz
- ♦ Support single or dual channel 18-bit LVDS panel
- ♦ SDVO signal down to connector X6

On-board Super I/O

- ♦ Winbond W83627

On-board LAN

- ♦ Realtek RTL8111C LAN controller
- ♦ Support PXE LAN boot function
- ♦ 10/100 Ethernet signals down to I/O board

On-board Audio

- ♦ High Definition Audio Realtek ALC888
- ♦ Support Mic-in/ Line-in/ Line-out
- ♦ AC'97 Signals down to I/O board

Other Interfaces

- ♦ On-board 2 x SATA
- ♦ On-board IDE controller for secondary IDE interface
- ♦ On-board PCI to ISA controller to support ISA interface

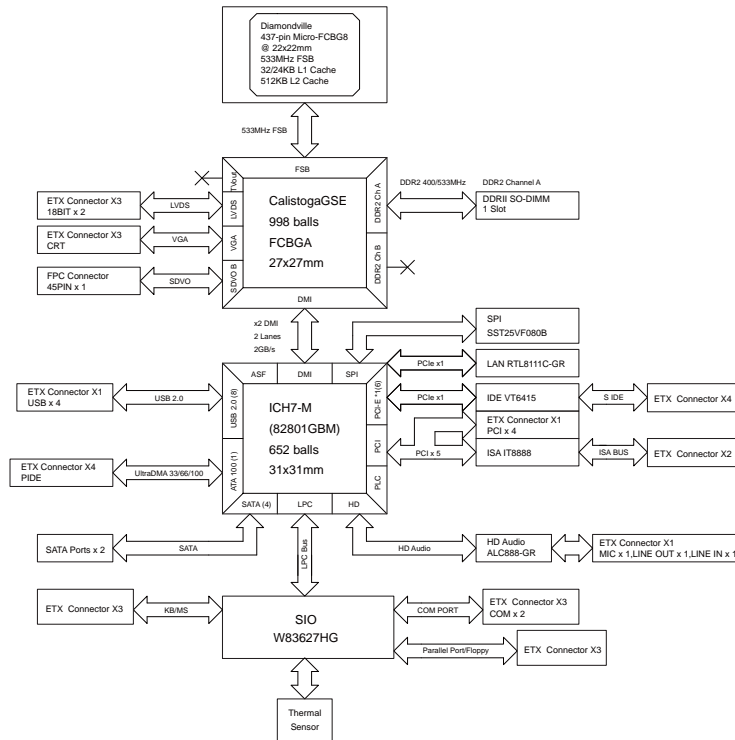
ETX Connector

- ♦ X1 connector
 - 4 x 32bit/ 33MHz PCI
 - Mic-in/ Line-in/ Line-out
 - 4 x USB 2.0
- ♦ X2 connector
 - ISA interface
- ♦ X3 connector
 - 1 x VGA
 - 1 x LVDS
 - 1 x Parallel port or 1 x Floppy
 - 1 x KB/Mouse
 - 2 x Serial ports
 - 1 x IrDA
- ♦ X4 connector
 - 2 x IDE
 - 1 x 10/100 LAN interface
 - SM bus or I²C bus

Power Requirements

- ♦ 5V power
- ♦ Support both AT and ATX power mode

Block Diagram



Dimensions

- 95mm (W) x 114mm (L)

Environment

- Operating temperature: 0°C to 60°C
- Storage temperature: -20°C to 80°C
- Relative humidity:
Operating 10% - 90%, non-condensing
Non-operating 5% - 95% (non-condensing)

Certifications

- CE approval
- FCC Class A

Ordering Information

- **ICES 170 (P/N: 10K00017000X0)**
ETX Module with Intel® Atom™ N270 (1.6G) processor