EBC 352

3.5" ECX on-board Intel® Atom™ D525 1.8GHz CPU

Main Features

- Support Intel® Atom™ Dual Core D525 Processor
- Support DDR3 SO-DIMM SDRAM, up to 2GB
- Support VGA/ LVDS 18/ 24-bit Display
- Dual Intel Gigabit Ethernet
- Support PCI 104, 1x Mini PCI Express Socket
- 4 x COMs, 6 x USB 2.0
- Single DC12V Power Input

Product Overview

The EBC 352 is a 3.5" ECX board with an on-board Intel® Atom™ dual core D525 with L2 cache 1MB and supports DDR3 SO-DIMM SDRAM module. It features dual display application to support independent CRT and LVDS 18/24-bit interface, dual Gigabit Ethernet, one PCI 104 and one mini PCI Express slot.

Specifications

CPU Support
- On-board Intel® Atom™ Dual Core D525 (1.8GHz, 1M Cache) processor

Main Memory
- 1 x 204-pin DDR3 SO-DIMM socket, DDR3 800 2GB Max., Non-ECC and Un-buffered

Chipset
- Intel® NH82801HBM (ICH8M)

BIOS
- AMI BIOS
- Plug & Play support
- Advanced Power Management
- Advanced Configuration & Power Interface
- 8M bits SPI ROM

On-board LAN
- 2 x Intel® GbE LAN controllers
- Support Boot From LAN (PXE) and Wake on LAN (WoL)
- 2 x RJ45 with LED

Display
- Intel® D425/D525 integrated graphic engine, support Directx*9, with Intel Clear Video Technology on MPEG2 Hardware Acceleration
- Analog VGA interface: 1 x DB15 VGA port, support up to 2048x1563@ 60Hz resolution
- 2x DF-13 20-pin LVDS connector, support single (24-bit) or dual (48-bit) LVDS panel support
- CCFL interface: 1 x 7-pin JST connector, 5V or 12V power source to enable LCD Panel backlight Inverter

Audio
- Realtek ALC888 CODEC for High Definition
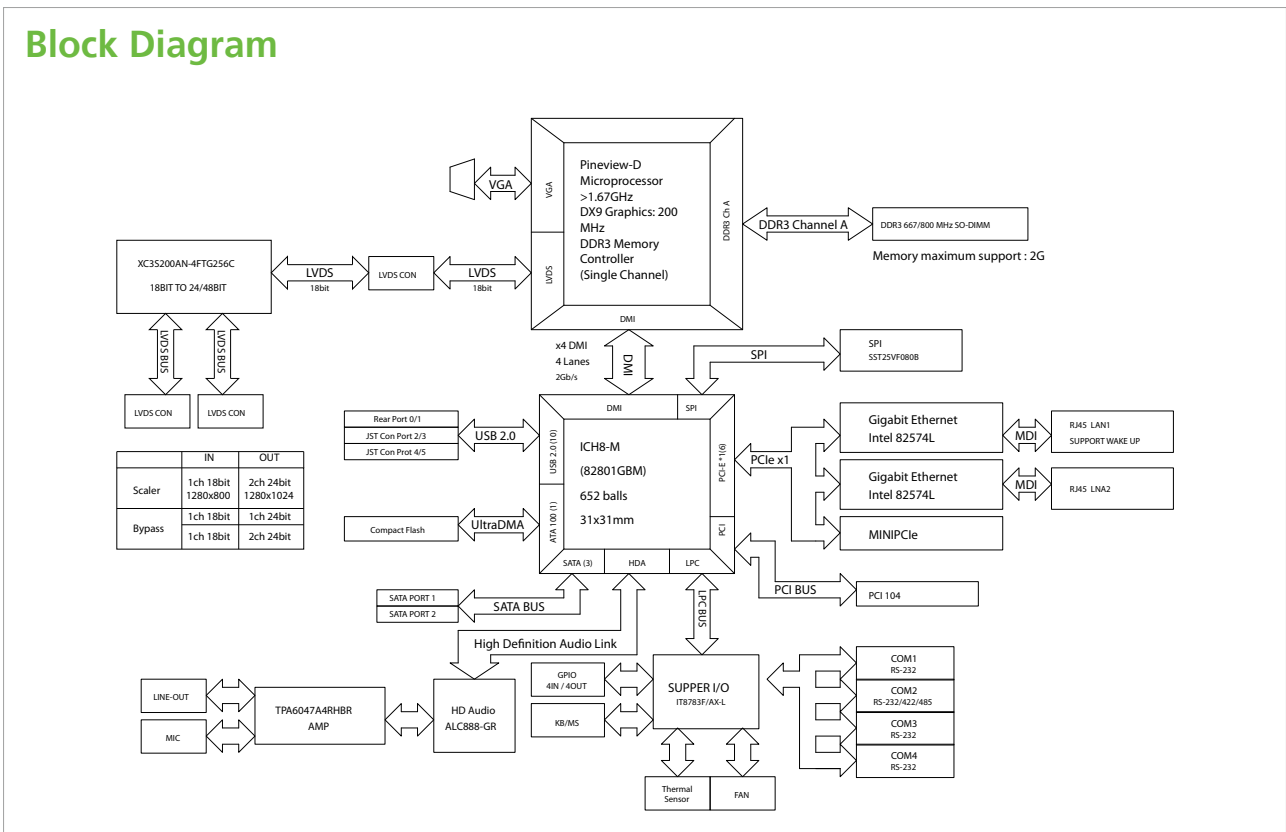- 1 x Mic-in and 1 x Line-out Pin header

Expansion
- 1 x Mini-PCIe socket

I/O Interface
- Serial port: 4 port
  1 x RS232 DB9 Connector
  2 x RS232 with 10-pin box header, 2.0mm pitch
  1 x RS232/422/485 (COM2) with 10-pin box header, 2.0mm pitch
- USB 2.0: 6 ports
  2 ports with USB 2.0 connector
  4 ports with internal JST connector
  8 x GPIO, 10-pin pin header, (GPI 0~3 and GPO0~3) with TTL Level (0/5V)
- On-board Power LED and HDD Active LED Pin Header
- 1 x 3-pin fan connector (for CPU)
- 1 x Keyboard/Mouse pin header
- On board Buzzer/ SMBus2.0/ Reset SW

Fanless Computer   NEXCOM

NE:COM

Block Diagram

Watchdog Timer

* Watchdog timeout can be programmable by Software from 1 second to 255 seconds and from 1 minute to 255 minutes (Tolerance 15% under room temperature 25°C)

Storage

* 2 x SATA connector (support 2.5" HDD and SATA DOM)
* 1 x CF socket

System Monitor

* Monitoring of 4 voltages and 2 temperatures
* 4 voltage (Vcore , +12V , +3.3V , +5V)
* 2 temperatures (CPU, system)

On-board RTC

* On-chip RTC with battery backup
* 1 x External Li-Ion battery

Power Input

* Support AT and ATX mode (ATX as the default)

Power Requirements

* Power requirement: +12 V DC Input
* One 4-pin power connector

Dimensions

* 3.5" ECX form factor
  146mm (L) x 105mm (W) (5.7"x4.1")

Environment

* Operating temperatures: 0°C to 60°C
* Storage temperature: -20°C to 85°C
* Relative humidity: Operating 10% to 90%, non-condensing

Certifications

* CE approval
* FCC Class A

Ordering Information

* **EBC 352 (P/N: 10E00035200X0) RoHS Compliant**
  Low power Embedded Board with Intel® Atom™ Dual Core D525 processor support DDR3 SO-DIMM memory module

NE:COM

3.25 " CPU Board

We reserve the right to change specifications and product descriptions at any time without prior notice.

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