

IB520

AMD Geode LX 3.5-inch Disk-Size SBC



(click to zoom)
[Datasheet in PDF](#)

FEATURES

- Embedded AMD Geode LX processors
Supports 433MHz (LX700) / 500MHz (LX800)
- DDR SO-DIMM x 1, Max. 1GB
- Onboard Realtek 8100C 10/100 Ethernet
- Integrated LX800/LX700 2D VGA controller,
Supports CRT and TFT LCD display
- 4 x USB 2.0, 2 x COM, CF socket
- Watchdog timer, Digital I/O
- PCI-104 expansion, optional PCMCIA connector

IB520 SPECIFICATIONS

CPU

AMD Geode LX700, 433MHz (IB520)
AMD Geode LX800, 500MHz (IB520F)

2nd Cache Memory

128KB on the processor

Chipset

AMD Geode LX700 / LX800
AMD CS5536 (south bridge)

BIOS

Award BIOS, APM

System Memory

One SO-DIMM DDR socket, up to 1GB
DDR333/400 SDRAM

VGA

2D VGA controller integrated on
AMD Geode LX700 / LX800
Up to 64MB shared memory

LCD

DF13-20 pin header for 24-bit single channel LVDS
support
44-pin pin header for TFT LCD panel support

LAN

Realtek 8100C 10/100 LAN
RJ-45 on board

Audio

Realtek ALC203 AC97 audio codec
Supports 2-CH Line-Out, Line-In & MIC

Multi I/O

Winbond W83627HF
Supports KB/Mouse, LPT, IrDA, FDD, COM1, COM2,
hardware monitor

IDE Interface

CS5536 built-in one-channel UDMA 100 IDE
44-pin header for IDE1
Compact Flash Type II connector

PCMCIA Interface (optional)

TI PCI1510 Cardbus controller
(only on IB520F)

Serial Ports

Two RS-232 ports

USB

4 USB 2.0 ports (1 on board, 3 via pin header)

IrDA

Pin header

Digital I/O

4 in / 4 out

Watchdog Timer

Generates system reset; 256 levels

Hardware Monitoring

Built in Winbond W83627HF; monitors system/CPU
temperature and voltage status

Expansion Slots

PCI-104 expansion

Edge Connectors

DB-9 for COM1 serial port (RS232)
Mini DIN for PS/2 KB* Mouse (via Y cable)
USB1 port

DB-15 for CRT VGA

RJ-45 for 10/100 LAN

Onboard Connectors

PCMCIA (for IB520F), LVDS, CF socket,
COM2, USB2/3/4, LPT, IDE1, FDD,
Audio, IrDA, Digital I/O, TFT, LVDS

Power Connector

+12V DC-in

Other Features

AT209S PCI arbiter/clock buffer, extends
PCI devices (master) from 1 to 3

Form Factor

3.5-inch SBC

Dimensions

145mm x 102mm

Power Consumption

TBD

Environmental Factors:

Operating Temperature: 0°C~60°C (32°F~140°F)

Storage Temperature: -20°C~80°C (-68°F~176°F)

Relative Humidity: 10%~90% (non-condensing)