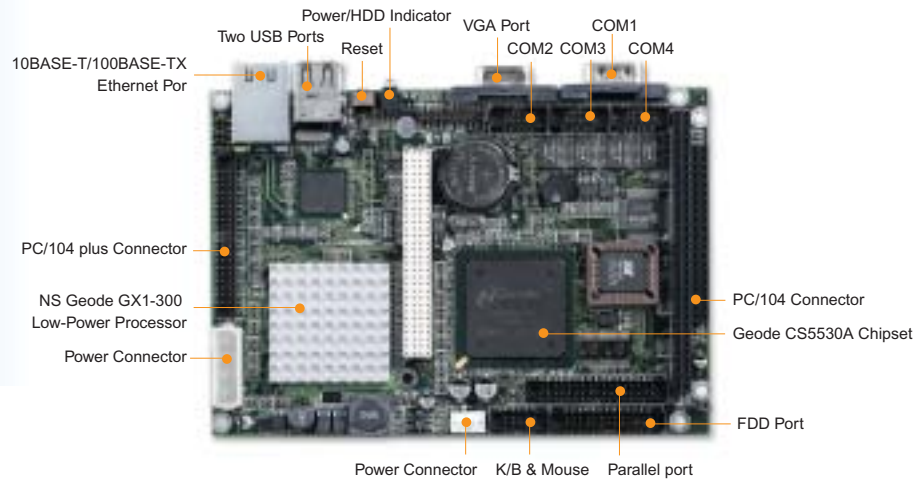


EBC-1200

3.5" embedded system board, based on low power NS GX1 processor with VGA/LAN/Ethernet/CF

Features

- PC/104-Plus specifications Rev. 1.2 compliant
- Reliable low power Geode GX1 586+ processor 300 MHz
- On-board standard VGA and I/O
- On-board 10/100 BASE-TX Ethernet
- Standard BIOS with extension for additional embedded features
- Up to 256 MB SDRAM on one SODIMM socket
- PC/104-Plus and PC/104 expansion connector
- Type II CF socket for 8~320 MB CompactFlash disk
- Needs only +5 V power for stand alone operation



Introduction

ADLINK EBC-1200 is a 3.5" embedded controller with low power NS GX1 586+ processor 300 MHz. The controller features low power consumption and high performance of computing, which are ideal for embedded applications. The Ethernet and RS-232/422/485 on the EBC-1200 provide great connectivity with most of the industry devices.

The EBC-1200 controller offers PC/104-Plus and PC/104 expansion connectors. The PC/104 specifications feature compact pin-socket connections, which make the devices suitable for harsh and shocking environments. The PC/104-Plus interface could reach 132 MB/s throughput, based on the PCI protocol. The EBC-1200 also features many new technologies such as on-board standard VGA and I/O, hot swappable CompactFlash Card and requires +5 V power supply only for stand alone operation. The EBC-1200 provides high reliability and high performance for test and measurement applications.



Specifications

CPU

- NS Media GX1 with MMX-S 300 MHz
- Cooling fan: none

Chipsets

- NS Geode GX1 and CS5530A

BIOS

- Award (2 Mb Flash ROM)

Host memory

- Up to 256 MB SDRAM on one SODIMM socket

VGA

- Chipset: Geode CS5530A
- Memory Size: Up to 4MB shared memory
- Resolution: 1280x1024, 1024x768

Ethernet

- Chip: Intel 82559
- Compatibility: 10BASE-T/100BASE-TX
- I/O Connector: RJ-45

IDE ports

- One 44-pin EIDE interface supporting two IDE devices

Floppy

- One 26-pin FDD interface supporting two floppy disk drives

Flash Disk

- Type II Compact Flash Socket (Support 8~320MB Compact Flash or IBM Microdrive)

On-board I/O

- RS-232 x2
- RS-422/485 x2
- Parallel port x1
- USB x2
- Mouse & Keyboard

Hardware Monitoring: N/A

Watchdog Timer

- Adjustable via hardware jumper with interval resolution setting from 0.5 sec. To 64 sec

Expansion Interface

- PC/104-Plus & PC/104 (PCI & ISA bus)

External Power Connector

- On-board 4-pin power connector (+12 V, GND, GND, +5 V)

General Specifications

- Operating temperature: 0 to 55 °C
- Storage temperature: -20 to 75 °C
- Relative humidity: 5 to 95%, noncondensing
- Power Consumption: +5V @ 1.5A
- Dimensions (not including connectors) 145 mm x 102 mm

Ordering Information

EBC-1200

- 3.5" embedded system board, based on low power NS GX1 processor with VGA/LAN/Ethernet/CF