

OpenBrick-NG Datasheet

Specifications

CPU :

Low Power 1Ghz Nehemiah CPU.
Its power consumption is only 12 watts.
Its speed is equivalent to Celeron 1.7Ghz CPU
Front Side Bus (FSB) : 266 / 200 /133 /100
Supports FSB 266/ 200 / 133 / 100
and PC2100 / PC1600

Chipset, System – VIA CLE266 chipsets

VIA VT8623 / 8622 and 8235 chipsets
BIOS : Phoenix Award BIOS, 256KB (Flash)
EPROM

DDR RAM Memory : 512MB

Support Double Data Rate (DDR) ultra high
speed memory up to 512MB

VGA : AGP 8x , 64MB video RAM

Support CRT VGA, AGP 8X, 64MB Video share
memory, Hardware MPEG-II, 3D / 2D motion
and movie pictures, LVDS, TTL LCD panels
LCD – LVDS and TTL LCD

Support LVDS and TTL LCD panels

Ethernet : Dual LAN

Dual Realtek 81 00L support Dual fast speed
Ethernet networking with auto-negotiation

Audio & Amplifier

Built in 2W audio amplifier to support high output
audio quality sound effect. With Microphone,
Speaker ports. No need to use external amplifier

Hardware MPEG-II : built on board

designed in hardware MPEG-II in order to
support very high speed 3D / 2D movie, DVD,
and video playback

Serial (COM) port - 4 x COM

4 x COMs (3x RS232 + 1x RS485/422/ 232)

USB - 4 x USB 2.0

4 USB 2.0 ports. USB 2.0 is 4000% faster than
USB 1.0 & 1.1. It is 480 Mb per second which is
faster than firewire IEEE-1394 (400 Mbps).

IrDA port

Support 1 x IrDA infra-red remote port

PCI Expansion Slot

Built in 1 x PCI slot for expansion purpose

2 Enhanced IDE with Ultra DMA

support 1 x 40pin and 1 x 44pin IDE ports.

LPT Parallel Port :

1 x LPT port support SPP, EPP and ECP mode.

Keyboard and Mouse :

A PS/2 Keyboard and a PS/2 Mouse port

Watchdog Timer

Software programmable watchdog timer
supported, select from BIOS

Real-time Clock

built-in super I/O with lithium battery backup
for 10 years of data retention. CMOS data
backup of BIOS setup and default.

Board Dimensions

4.5" Embedded mini EBX form factor.

Board size : 125 x 190 mm

Industrial Components

Use industrial & military grade parts that support
higher temperature up to 65 or higher degree

Watchdog Timer (WDT)

Built in user friendly watchdog timer to auto
detect and auto re-boot. WDT can be set easily
from the BIOS

Operating Temperature

0 to 65 degree Celcius

